



POORNIMA

COLLEGE OF ENGINEERING

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INTERNATIONAL WEBINAR

On

Quintic and Quinticated Nonlinear

Wednesday, June 17, 2020

Coordinated by:

Dr. Shilpi Jain

(Associate Professor, Department of Civil Engineering, PCE)

Mr. Balwan

(HOD, Department of Civil Engineering, PCE)


Dr. Mahesh Bunde
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Director
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Jaipur, RAJASTHAN

ABOUT THE SPEAKER:

Professor Daniele Ritelli, University of Bologna, Italy

Professor Daniele Ritelli is Professor in Bologna University since 2004, his research interest is Classical Analysis. In particular Special Functions: gamma, beta, digamma and polygamma, hypergeometric functions, (Gauss Appell and Lauricella), Elliptic integrals. Definite integrals by means of special functions. Exact analytical solutions of differential equations and boundary value problems. Mathematical modeling with ordinary differential equations, economic dynamics and growth models, EOQ models for optimal inventory management, minimum cost models in production planning.

He is very active international researcher involved in many projects and serving as a reviewer for the American Mathematical Society. Prof. Ritelli is authored of many publications.

BRIEF REPORT:

Poornima College of Engineering (PCE), Jaipur organized a distinguished Webinar on "**Quintic and Quinticated Nonlinear Oscillators**" on Wednesday i.e. June 17, 2020 at 11:00 AM. More than 411 participant's registered in the event and more than 369 students have attended the Distinguished Lecture from all over India.


Professor (Dr.) Mahesh Bunde, Director & Principal (Poornima College of Engineering) proposed the welcome note. **Dr. Shilpi Jain**, Associate Professor, Poornima College of Engineering introduced about topic and speaker.

During the technical discussions **Prof. Ritelli** focused the theory of nonlinear oscillators is an extremely active field of contemporary research, given the vastness of the phenomena modeled through nonlinear differential equations with periodic solutions. He mentioned two folds: first Part consists previous results, exact analytic solutions (in terms of Jacobian Elliptic functions) of nonlinear differential equations faced in treatment of non dissipative conservative systems with even power sixth degree potential. In the second part **Prof. Ritelli** established solution methods to treat an approximate model, obtained using Chebyshev polynomial up to the fifth degree, for a cubic septic Duffing oscillator.

MR. BALWAN, HoD, Department of Civil Engineering (Poornima College of Engineering) proposed the votes of thanks to the speaker and mentioned the knowhow of being in the industry along with all participants.



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Prof. (Dr.) Daniele Ritelli
Professor
Department of Statistical Sciences "Paolo Fortunati"
University of Bologna, Italy

An International Webinar on
**QUINTIC AND QUINTICATED
NONLINEAR OSCILLATORS**

Webinar to be hosted by
Department of Civil Engineering

 **WEDNESDAY, JUNE 17, 2020**

 **TIME 11:00 AM - 12:00 NOON**

RSVP
Dr. Shilpi Jain
shilpi.jain@poornima.org
+91-9928279174


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REGISTRATION DETAILS & PARTICIPANTS LIST:

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| 177. | Shashilata Pal | Barkatullah University | Chemistry | Bhopal | Madhya Pradesh | India |
| 178. | JAGANMOH AN Y J | CMR TECHNICAL CAMPUS | ECE | Hyderab ad | Telangana | India |
| 179. | Ayushi Bhargava | Poornima Institute Of Engineering And Technology | Computer Science | Jaipur | Rajasthan | India |
| 180. | SUDEESH CHOUHAN | SCHOOL OF ENGINEERING,SSSU TMS | COMPUTER SCIENCE & ENGINEERIN G | SEHOR E | M.P. | INDIA |
| 181. | Shripad Shridhar Kurhadkar | Government Polytechnic Jalna | Mechanical Engineering | Jalna | Maharashtr a | India |
| 182. | Dr. Lakshmi Narayan Mishra | Vellore Institute Of Technology (VIT) University, Vellore | Department Of Mathematics, SAS | Vellore | Tamil Nadu | India |
| 183. | Amandeep Kaur | Baba Farid College Bathinda | Computer Science | Bathinda | Punjab | India |
| 184. | S. Mohammed Faizal | Paavai Engineering College | Department Of Civil Engineering | Namakk al | Tamil Nadu | India |
| 185. | Gagan Gupta | Baba Farid College | Computer Science | Bathinda | Punjab | India |

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| 186. | Ritesh Kumar | Baba Farid Group Of Institutions | BCA | Deon, Bathinda | Punjab | India |
| 187. | Priya Dhingra | Baba Farid Group Of Institution Bathinda | BCA | Mansa | Punjab | India |
| 188. | Saksham | Baba Farid Group Of Institutions | Bca | Bathinda | Punjab | India |
| 189. | Jasmeet Kaur | Baba Farid Group Of Institution | BCA | Kot Kapura | Punjab | India |
| 190. | Jashandeep | Baba Farid Group Of Institute | Bca | Deon | Punjab | India |
| 191. | Dr. Sapna Shrimali | Janardan Rai Nagar Rajasthan Vidyapeeth (Deemed To Be University), Udaipur Rajasthan | Department Of Mathematics | Udaipur | Rajasthan | India |
| 192. | Muthumari G | Mohamed Sathak Engineering College | Civil Engineering | Kilakarai | Tamilnadu | India |
| 193. | Dr. Neera Kumari | BFIT Group Of Institutions, Dehradun Uttarakhand, India | Department Of Statistics And Mathematics | Dehradun | Uttarakhand | India |
| 194. | Arshdeep Singh | Baba Fried Collage | BCA | Chughe Khurd, Bathinda | Punjab | India |
| 195. | Reena Kohli | Poornima College Of Engineering, Jaipur | Civil | Jaipur | Rajasthan | India |
| 196. | Harish Gupta | Poornima College Of Engineering | Mechanical | Jaipur | Rajasthan | India |
| 197. | Astha Chaturvedi | Poornima College Of Engineering | Civil Engineering | Jaipur | Rajasthan | India |
| 198. | Mithlesh Gautam | TRUBA College Of Science And Technology Bhopal | Electrical And Electronics | Bhopal | Madhya Pradesh | India |
| 199. | Srishti Roda | Baba Farid College | Computer Science | Abohar | Punjab | India |
| 200. | MUTHUVEL M | Thai Moogambigai Polytechnic College | Mechanical Engineering | Chennai | Tamilnadu | India |
| 201. | S. Sumathy | Sivanthi College Of Education | Computer Science | Kundrathur | Tamilnadu | India |
| 202. | MITHLESH KUMAR PRAJAPATI | Kalinga University Raipur | Computer Science | Raipur | Chhattisgarh | India |
| 203. | Tarun Upadhayay | Poornima College Of Engineering | Computer Science | Jaipur | Rajasthan | India |
| 204. | RATHVA | GEC DAHOD | MECHANICA | VADOD | GUJARAT | INDIA |

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| | MEHUL VIJAYBHAI | | L ENGINEERING | ARA | | |
| 205. | Rahul Lahora | BABA Farid College | BCA | Jalalabad | Fazlika | India |
| 206. | SIDDHARTH JOSHI | POORNIMA UNIVERSITY | Computer Science And Engineering | Bhilwara | Rajasthan | INDIA |
| 207. | ASWINI M | LOYOLA INSTITUTE OF TECHNOLOGY | EEE | Nagercoil | Tamil Nadu | India |
| 208. | Dr. G.SABARINATHAN | PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY DINDIGUL | Mathematics | Dindigul | Tamilnadu | India |
| 209. | Mehakdeep Singh | Baba Farid Group Of Institutions | Bca | Bathinda | Punjab | India |
| 210. | HARSH AGRAWAL | Poornima College Of Engineering | Civil Department | Jaipur | Rajasthan | India |
| 211. | Sanjeev Kumar | Poornima College Of Engineering | Computer Science | Bhiwani | Haryana | India |
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| 213. | Rajesh Kumar | Poornima University | Electrical And Electronics Engineering | Jaipur | Rajasthan | India |
| 214. | Dr.Anand Mohan | LN Mithila University, Darbhanga | Physics | Darbhanga | Bihar | India |
| 215. | Sandeep Kaur | Baba Farid College | Computer Application | Lehra Mohabbat | Punjab | India |
| 216. | Sanjana | Baba Farid Group Of Institutions | Computer Application Department | Bathinda | Punjab | India |
| 217. | Anupam Agarwal | Anand ICE, Jaipur | Electrical Engineering | Jaipur | Rajasthan | India |
| 218. | Bhavisha Moghe | Poornima University | Computer Science | Ratlam | M.P. | India |
| 219. | Jaspreet Kaur | Baba Farid Group Of Institutions Deon Bathinda | Bca | Bstinda | Punjab | India |
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| 223. | Pradeep Kumar Khanwani | Poornima College Of Engineering | Civil Engineering | Alwar | Rajasthan | India |
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| 227. | Santhosh R | DRBCCC Hindu College | Statistics | Avadi, Chennai-65 | Tamilnadu | India |
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| 229. | Balveer Singh | Rajdhani Engineering College Jaipur | Mechanical Engineering | Jaipur | Rajasthan | India |
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| 231. | Divya Rastogi | Poornima College Of Engineering | Civil Engineering Department | Jaipur | Rajasthan | Indian |
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| 233. | Saqib Ali Mir | Poornima College Of Engineering | Civil Engineering Department | Jaipur Sitapura | Rajasthan | India |
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| 236. | Dr. D. Dhamodharan | Jamal Mohamed College | Mathematics | Trichy | Tamilnadu | India |
| 237. | Shakti Rathore | Poornima College Of Engineering | Civil Engineering | Jaipur | Rajasthan | India |
| 238. | YASH SANKHLA | Poornima Institute Of Engineering And Technology, Jaipur | Computer Science | Kota | Rajasthan | India |
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| 242. | Mohit Choudhary | Poornima College Of Engineering | Civil Engineering | Jaipur | Rajasthan | India |
| 243. | Sahil Neelgar | Poornima College Of Engineering Jaipur | Electrical Engineering | Jaipur | Rajasthan | India |
| 244. | Garima | Poornima University | Mba | Jaipur | Rajasthan | India |
| 245. | Rohit Kumawat | Poornima College Of Engineering | Civil | Sitapura, Jaipur | Rajasthan | India |
| 246. | Shubham Singh | Dayalbagh Educational Institute, Agra | Education | Agra | U.P. | India |
| 247. | Kuldeep Vaishnav | Poornima College Of Engineering | CS | Jaipur | Rajasthan | India |
| 248. | Dr.Seema Chawla | RCEW, Jaipur | Applied Sciences | Jaipur | Rajasthan | India |
| 249. | Ajaydeep Singh | Baba Fraid College | Bca | Malout | Punjab | India |
| 250. | N.PRAKASH | Tamil Nadu Open University | Education | Chennai | Tamil Nadu | India |
| 251. | Rushikesh Ramdas Tupkar | JSPM Imperial College Of Engineering And Research Wagholi Pune | Mechanical Engineering | Pune | MAHARA SHTRA | India |
| 252. | DEEPAK KUMAR SHARMA | Poornima University | EEE | JAIPUR | Rajasthan | India |
| 253. | Aniket Uttam Dohale | M.I.T College Aurangabad | Mechanical Engineering | Auranga bad | Maharashtr a | India |
| 254. | Bhavendra Kumar Sinha | Kalinga University Raipur | Computer Science And Engineering | Raipur | Chhattisgar h | India |
| 255. | Dikshita Deepak Shah | L. S. Raheja College Of Arts And Commerce | Commerce | Mumbai | Maharashtr a | India |
| 256. | Deepti Tiwari | Truba College Of Science And Technology | Basic Science And Humanities | Bhopal | Madhya Pradesh | India |
| 257. | Mr. NABAB SINGH | Stani Memorial PG College Jaipur | Mathematics | SMPGC IIRM | Rajasthan | India |



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| 258. | AMARJEET BHARTI | Poornima College Of Engineering, Jaipur | Applied Science | Jaipur | Rajasthan | India |
| 259. | Dr A Bharathi | Bannari Amman Institute Of Technology | Information Technology | Sathyam angalam | Tamilnadu | India |
| 260. | R.Prabavathi | Engineering College | Ece | Tn | Tn | India |
| 261. | S. Samuel Thangaraj | St.Thomas College Of Arts And Science, Koyambedu, Chennai 107. | Commerce | Chennai | TAMILNA DU | India |
| 262. | Smit.A.Patel | GEC Dahod | Mechanical | Dahod | Gujarat | India |
| 263. | Kaushal Kishor | Poornima Group Of Institution | Mechanical Engineering | Jaipur | Rajasthan | India |
| 264. | Barjod Umeshbhai | GEC, DAHOD | Mechanical | Dahod | Gujarat | India |
| 265. | Abhishek Shehra | Poornima College Of Engineering | Civil Engineering Department | Jaipur | Rajasthan | India |
| 266. | Deepak Bohra | Mayurakshi Institute Of Engineering And Technology, Jodhpur | Electrical | Jodhpur | Rajasthan | India |
| 267. | Sachin Mokhle | Barkatullah University Bhopal | Mathematics | Bhopal | MP | India |
| 268. | SUNIL KUMAR MANOHAR | Poornima College Of Engineering | Civil Department | Jaipur | Rajasthan | India |
| 269. | Komalpreet Singh | Baba Farid Group Of Institute | Computer Department | Deon(Ba thinda) | Punjab | India |
| 270. | Jasmeen Kaur | Baba Farid Group Of Institute | Computer | Punjab | India | Deon(Bat hinda) |
| 271. | Dr. Giriraj Methi | Manipal University Jaipur | Department Of Mathematics@ Statistics | Jaipur | Rajasthan | India |
| 272. | Sonia | M. D. University, Rohtak | Statistics | Rohtak | Hariyana | India |
| 273. | Nishita Bihani | PIET | CS | J | RAJASTH AN | India |
| 274. | Dr Sanjay Kumar Mathur | Aryabhatta College Of Engineering & | Electrical Engineering | Ajmer | Rajasthan | India |

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| | | Research Centre, Ajmer | | | | |
| 275. | Francesco MAINARDI | University Of Bologna, Italy | Dept Of Physics | BOLOGNA | ITALY | ITALY |
| 276. | Omar Abu Arqub | Al Balqa Applied University | Mathematics | Jordan | Amman | Jordan |
| 277. | Manoj Kumar Gaur | Birla Technical Training Institute, Pilani | Electronics | Pilani | Rajasthan | India |
| 278. | SURBHI ASATI | Truba Institute Of Engineering And Information Technology, Bhopal | Cse | Bhopal | Mp | India |
| 279. | Ashuvendra Singh | Devbhoomi Institution Of Technology, Dehradun | Civil Engineering | Dehradun | Uttarakhand | India |
| 280. | RAJESH RAJAN | GLOBAL INSTITUTE OF TECHNOLOGY, JAIPUR | COMPUTER SCIENCE AND ENGINEERING | JAIPUR | RAJASTHAN | INDIA |
| 281. | SURENDRA SINGH DUA | GLOBAL INSTITUTE OF TECHNOLOGY | Electrical | Jaipur | RAJASTHAN | India |
| 282. | Varun Mehra | Poornima College Of Engineering | Civil Engineering | Jaipur | Rajasthan | India |
| 283. | Sonali Devra | Mody University School Of Science And Technology Lakshmangarh | Mathematics | Bikaner | Rajasthan | India |
| 284. | Dr. Krishnapal Singh Sisodia | Mody University Of Science And Technology, Lakshmangarh | Mathematics | Sikar | Rajasthan | India |
| 285. | Dr A K Malik | B K Birla Institute Of Engineering And Technology Pilani Rajasthan | Mathematics | Pilani | Rajasthan | India |
| 286. | Dr. H. M. Devra | Govt. M. S. Girls College, Bikaner | Mathematics | Bikaner | Rajasthan | India |
| 287. | Manisha Nagpal | Mody University Of Science And Technology, Laxmangarh, Sikar | Mathematics | Laxmangarh | Rajasthan | India |
| 288. | Akshima Gautam | Vivekananda Global University, Jaipur | Civil Engineering | Jaipur | Rajasthan | India |


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| 289. | Anjali | Mody University Of Science And Technology | Mathematics | Laxmangarh | Rajasthan | India |
| 290. | Bhawna Gupta | Poornima College Of Engineering | Computer Science | Jaipur | Rajasthan | India |
| 291. | Keshav | Mody University | Mathematics | Danoda Kalan | Haryana | India |
| 292. | ATISHEY JAIN | Poornima Institute Of Engineering And Technology | CSE | Jaipur | Rajasthan | India |
| 293. | DUMITRU BALEANU | Cankaya University | Department Of Mathematics | Ankara | Ankara | TURKEY |
| 294. | PRADEEP KUMAR JAIN | JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE | CIVIL ENGINEERING | JAIPUR | RAJASTHAN | INDIA |
| 295. | Sudhir Panwar | Jecrc ,Jaipur | CIVIL ENGINEERING | JAIPUR | RAJASTHAN | INDIA |
| 296. | Avinash Kumar | Poornima College Of Engineering | Civil | Jaipur | Rajasthan | India |
| 297. | Piyush Garg | Poornima College Of Engineering | Civil Department | Jaipur | Rajasthan | India |
| 298. | Arvind Maharshi | Mody University Of Science And Technology, Lakshman garh, Sikar-Rajasthan | Mathematics | Lakshman garh | RAJASTHAN | India |
| 299. | Anil Gupta | Poornima College Of Engineering | Civil Engineering | Jaipur | Rajasthan | India |
| 300. | Nanu Ram Budaniyan | Poornima College Of Engineering | Civil Engineering | Jaipur | Rajasthan | India |
| 301. | Teekam Singh | Jaipur Engineering College And Research Center | Department Of Civil Engineering | Jaipur | Rajasthan | India |
| 302. | Dr RISHI KUMAR PANDEY | Mody University Of Science And Technology Laxmangarh Sikar Rajasthan | Mathematics | Sikar | Rajasthan | India |
| 303. | Priyanka | Mody University | Mathematics | Hanumangarh | Rajasthan | India |
| 304. | ABHISHEK CHANDA | JAIPUR ENGINEERING COLLEGE | CIVIL ENGINEERING | JAIPUR | RAJASTHAN | INDIA |


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| 305. | A Nirmala Shirley | St. Mary's College (Autonomous) Thoothukudi | Physics | Thoothukudi | Tamilnadu | India |
| 306. | Dr HIMANI GOYAL SHARMA | PCE | EE | Jaipur | Rajasthan | India |
| 307. | Pawan Mahawar | Poornima College Of Engineering | Poornima College Of Engineering | Jaipur | Rajasthan | India |
| 308. | Deepak Nolkya | Poornima College Of Engineering | Civil Engineering | Jaipur | Rajasthan | India |
| 309. | Dakshita Sharma | Poornima College Of Engineering | Computer Science | Jaipur | Rajasthan | India |
| 310. | Amita Kumari | Mody University | Mathematics | Laxmangarh | Rajasthan | India |
| 311. | Amisha Goswami | Poornima College Of Engineering | Electronics And Communication | Jaipur | Rajasthan | India |
| 312. | Mani Vashishtha | Poornima University | School Of Design And Art | Jaipur | Up | Indian |
| 313. | Poonam Prajapati | Poornima University | B.Des | Jaipur | Rajasthan | India |
| 314. | VISHWAS GOTHWAL | Poornima Institute Of Engineering And Technology | Electrical Engineering | Jaipur | Rajasthan | India |
| 315. | PIYUSH TIWARI | Poornima College Of Engineering | Mechanical Engineering | Jaipur | Rajasthan | India |
| 316. | SUMIT BANERJEE | National Institute Of Science And Technology | EEE | Berhampur | Odisha | India |
| 317. | Kanchan Nehra | Mody University Of Science And Technology Lakshmangarh | Mathematics | Lakshmanagarh | Rajasthan | India |
| 318. | Rakesh Raushan | Maharani Girls Engineering College Jaipur | ECE | Jaipur | Rajasthan | India |
| 319. | Vikas Mehta | Shoolini University | Civil Engineering | Solan | HP | India |
| 320. | Kanchan Rana | Himachal Pradesh Centre On Climate Change Shimla | Himachal Pradesh Council For Science, Technology And Environment, Shimla | Shimla | Himachal Pradesh | India |


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| 321. | Rabiaa Aouafi | Khenchela University | Department Of Mathematics And Computer Information | Khenchela | Khenchela | Algeria |
| 322. | Smila.L | St.Mary's College (Autonomous) Thoothukudi | Physics | Thoothukudi | Tamilnadu | India |
| 323. | Hemant Kumar Sharma | B.Tach First Year | Electrical Engineering | Kaneti Post-Muhkhurd (Dausa) | RAJASTHAN | India |
| 324. | RAKSHITHA M V | Field Marshal KM Cariappa College, Madikeri | MBA (Tourism And Travel Management) | Madikeri | Karnataka | India |
| 325. | Vikram Kumar Kumawat | Poornima College Of Engineering Jaipur | Civil Engineering | Sitapura, Riico Industrial Area, Jaipur | Rajasthan | India |
| 326. | Dr.Garima | Mody University Of Science And Technology, Lakshmangarh, Sikar | Department Of Mathematics | Sikar | RAJASTHAN | India |
| 327. | Mrs.P.Yamunarani | P K R Arts College For Women | Mathematics | Gobi | Tamilnadu | India |
| 328. | Dr.Manjeet Sharma | KVMT Engineering College Siwani | Electrical Engineering | Siwani | Haryana | India |
| 329. | Ankit Khandelwal | Poornima Institute Of Engineering And Technology | Computer Science | Jaipur | Rajasthan | India |
| 330. | Lokendra Singh Rathore | Poornima University | EE | Jaipur | Rajasthan | India |
| 331. | Raghav Taneja | Baba Farid College,Bathinda | Computer Department | Abohar | Punjab | India |
| 332. | Gourav Choudhary | Poornima University | B. Com | Katras | Jharkhand | India |
| 333. | Dr Kumari Priyanka | Shivaji College (University Of Delhi), New Delhi 110027, India | Mathematics | New Delhi | Delhi | India |
| 334. | OMENDRA SINGH | Poornima College Of Engineering Jaipur | Mechanical Engineering | Jaipur | Rajasthan | India |
| 335. | Poonam Rani | MRIIRS | FET | Faridabad | Haryana | India |


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| 337. | Amita Dwivedi | University Of Allahabad | Mathematics | Prayagraj | Uttar Pradesh | India |
| 338. | Mohd Qasim | Baba Ghulam Shah Badshah University Rajouri | Department Of Mathematical Sciences | Rajouri | Jammu And Kashmir | India |
| 339. | Sakanksha Dadhich | Poornima Institute Of Engineering And Technology | Computer Engineering | Jaipur | Rajasthan | India |
| 340. | Pinki | Maharshi Dayanand University Rohtak | Mathematics | Rohtak | Haryana | India |
| 341. | Sudesh Kumari | Government College For Girls Sector 14 Gurugram | Mathematics | Gurugram | Haryana | India |
| 342. | Dr. Navnit Jha | South Asian University, New Delhi | Department Of Mathematics | Delhi | Delhi | India |
| 343. | Nitin Tomar | IIT Bombay | Mathematics | Delhi | Delhi | India |
| 344. | Deepak Umrao Sarwe | Mumbai University | Mathematics | Mumbai Maharashtra | Maharashtra | India |
| 345. | Neha Agrawal | Kirori Mal College, University Of Delhi | Mathematics | Delhi | Delhi | India |
| 346. | Dr. Bharti | Shyam Lal College (Eve.), University Of Delhi | Mathematics | Delhi | Delhi | India |
| 347. | Hiral Chavada | Shri M.M. Patel Institute Of Science And Research | M.Sc Biotechnology | Gandhinagar | Gujarat | India |
| 348. | Radha | Starex University, Binola, Gurugram | Mathematics | Gurugram | Haryana | India |
| 349. | Sonu Ram | Govt. National College, Sirsa | Mathematics | Sirsa | Haryana | Indian |
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| 351. | Harish Kumar Tomar | IIT GUWAHATI | Mechanical Engineering | Delhi | Delhi | India |
| 352. | Lakshmi Rani Basumatary | University Of Delhi | Mathematics | Delhi | Delhi | India |
| 353. | ABHIMANYU | Poornima College Of Engineering | Electronics & Communication | Jaipur | Rajasthan | India |
| 354. | Dr. Gagandeep Jagdev | Punjabi University Guru Kashi College, | Computer Science | Bathinda | Punjab | India |



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| | | Damdama Sahib, Punjab | | | | |
| 355. | ANITA TOMAR | Government Degree College Thatyur (Tehri Garhwal) Uttarakhand, India | Mathematics | Thatyur | Uttarakhand | India |
| 356. | Ajay | Starex University | Department Of Commerce | Gurgaon | Haryana | India |
| 357. | AKBER ALI KHAN | Jamia Millia Islamia New Delhi-110025 | Applied Sciences And Humanities | New Delhi- 110025 | Delhi | India |
| 358. | Dr Rekha Lahoti | GITS Udaipur | Mathematics | Udaipur | Rajasthan | India |
| 359. | DR JYOTINDRA C PRAJAPATI | SARDAR PATEL UNIVERSITY | MATHEMATICS | VALLA BH VIDYA NAGAR | GUJARAT | INDIA |
| 360. | Dr Najmuddin Ahmad | Integral University Lucknow | Mathematics | Lucknow | Uttar Pradesh | India |
| 361. | Fauzia Shaheen | Integral University | Mathematics | Lucknow | U.P. | India |
| 362. | Dr.Paras D. Uchat | Indian Institute Of Teacher Education- Gandhinagar | Centre Of Education | Gandhinagar | Gujarat | India |
| 363. | Mehar Chand | Baba Farid College | Mathematics | Bathinda | Punjab | India |
| 364. | Vimal Pratap Singh | Asian Group Of Institutions Baghpur Kanpur | Mathematics | Kanpur | Uttar Pradesh | India |
| 365. | Fatma Ayça Çetinkaya | Mersin University | Mathematics | Mersin | No State | Turkey |
| 366. | Iryna | Institute Of Mathematics Of The National Academy Of Sciences Of Ukraine | Complex Analysis And Potential Theory Department | Tereshch enkivska Str. 3, | Kyiv | Ukraine |
| 367. | Priya Rani | Baba Farid Group Of Institutions | Mathematics | Bathinda | Punjab | Rampura Phul |
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| 369. | Biswadip Basu Mallik | Institute Of Engineering & Management, Kolkata | Basic Science And Humanities | Kolkata | West Bengal | India |
| 370. | Prashant Pandey | Govt. MGM PG College Itarsi | Mathematics | Itarsi | Madhya Pradesh | India |

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| | | Hoshangabad Madhya Pradesh | | | | |
| 371. | Princess Raina | Baba Ghulam Shah Badshah University | Department Of Mathematical Sciences Baba Ghulam Shah Badshah University Rajouri | Rajouri | Jammu And Kashmir | India |
| 372. | Abderrahim Wakif | Hassan II University Of Casablanca | Physics | Casablanca | Casablanca | Morocco |
| 373. | Mr. Naveen Kumar | Chandigarh University, Gharuan | Mathematics | Mohali | Punjab | India |
| 374. | Dr. Preeti Mehta | B.N. University, Udaipur | Mathematics | Udaipur | Rajasthan | India |
| 375. | Shesh Kumar Pandey | A. N. D. Kisan P. G. College, Babhnan Gonda, U. P. | Department Of Mathematics | Sultanpur | Uttar Pradesh | India |
| 376. | Satinder Pal Kaur | Guru Nanak College For Girls, Sri Muktsar Sahib | Mathematics | Sri Muktsar Sahib | Punjab | India |
| 377. | RAVNEET KAUR | RAYAT BAHRA UNIVERSITY, MOHALI | MATHEMATICS | CHANDIGARH | CHANDIGARH | INDIA |
| 378. | Simranjeet Kaur | Baba Farid College Bathinda | Mathematics | Kotkapur | Punjab | India |
| 379. | Vinod Trivedi | Bhavan's Science College | Dept Of Mathematics(Rtd Head) | Ahmedabad | GUJARAT | India |
| 380. | Dr. Ajay Kumar Sharma | Mahatma Gandhi College Of Science, Gadchander | Mathematics | Gadchander | Maharashtra | India |
| 381. | Dr. PRADEEP JAIN | C.L.JAIN COLLEGE FIROZABAD | Chemistry | FIROZABAD | Uttar Pradesh | India |
| 382. | Avinita Gautam | Banaras Hindu University | DST-CIMS | Varanasi | Uttar Pradesh | India |
| 383. | Gaurav Tamrakar | Kalinga University | Mechanical Engineering | Raipur | Chhattisgarh | India |
| 384. | S.KARTHIYANINI | NES RATNAM COLLEGE | MATHEMATICS | MUMBAI | MAHARASHTRA | INDIA |
| 385. | DR. NIKHAT ZULEKHA | Trinity Institute Of Innovation In Professional Studies, Greater Noida | Mathematics | GREAT NOIDA U.P., INDIA | UTTAR PRADESH | INDIA |

Poornima College of Engineering - Activity Report

| | | | | | | |
|------|--------------------------------------|--|-------------------------------------|--|-------------------|-------|
| 386. | Karm Vir Singh | Chaudhary Charan Singh Pg College Heonra Etawah | Mathematics | Shikohabad | Uttar Pradesh | India |
| 387. | Rupinder Kaur | Baba Farid College Bathinda | Mathematics | Bathinda | Punjab | India |
| 388. | DR. RAM KRISHAN | GOVT. DEGREE COLLEGE KATHUA | MATHEMATICS | KATHUA | JAMMU AND KASHMIR | INDIA |
| 389. | HEMANT JANGIR | Poornima University | BCA | Alwar | RAJASTHAN | India |
| 390. | Dr.Jaimikaben Rameshchandra Surawala | C.B.Patel Computer College Andj.N.M.Patel Science College,Bharthana(Vesu),Surat,Gujarat | Department Of Mathematics | Surat | Gujarat | India |
| 391. | Zaheer Abbas | Baba Ghulam Shah Badshah University | Department Of Mathematical Sciences | Rajouri | Jammu And Kashmir | India |
| 392. | Dr Sushil Kumar | Paliwal(P.G.)College, Shikohabad | Department Of Zoology | Shikohabad, District: Firozabad-283135 | Uttar Pradesh | India |
| 393. | Vishnu Narayan Mishra | Indira National Tribal University, Amarkantak | Mathematics | Amarkantak | Madhya Pradesh | India |
| 394. | DR DINESH KUMAR RAO | JB Institute Of Technology, Dehradun | Mechanical Engineering | Dehradun | Uttarakhand | India |
| 395. | Mohamed R.Ali | Benha | Mathematics | Egypt | Egypt | Egypt |
| 396. | Manish Kumar Saini | Poornima University | Mechanical Engineer | Jaipur | Rajasthan | India |
| 397. | SHAH JEEL SANDIPKUMAR | GOVERNMENT ENGINEERING COLLEGE,DAHOD | MECHANICAL | TIMBAROAD | GUJRAT | INDIA |
| 398. | HITESH KUMAR PUROHIT | PIET | Computer Science | Jaipur | Rajasthan | India |
| 399. | Owais Khan | Integral University | Mathematics | Lucknow | U.P. | India |
| 400. | N THERESITA SHANTHI | St. Ignatius College Of Education, Palayamkottai | Physical Science | Tirunelveli | Tamil Nadu | India |


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Poornima College of Engineering - Activity Report

| | | | | | | |
|------|----------------------------|--|----------------------------------|------------------------|---------------|--------------|
| 401. | Dr. Ummatul Fatima | Princess Nourah Bint Abdulrahman University | Business Administrations | Riyadh | Riyadh | Saudi Arabia |
| 402. | Kailash Ram | Govt.Sr.Sec.School KUCHERA Nagaur Rajasthan | Mathematics | Nagaur Rajasthan | RAJASTHAN | India |
| 403. | Dr. Akash Kumar Shrivastav | RIMT University Fatehgarh Sahib Punjab | Mathematics | Fatehgarh Sahib Punjab | Punjab | India |
| 404. | Akrati Jain | Poornima University | Computer Science And Engineering | Jaipur | Rajasthan | India |
| 405. | Krati Jain | Poornima College Of Engineering | Computer Science | Jaipur | Rajasthan | India |
| 406. | Dr. Sanjaybhai Ghevariya | Sardar Patel University | Mathematics | Vallabh Vidyanagar | Gujarat | India |
| 407. | Mohd Vasiulla | Jamia Millia Islamia | Applied Sciences And Humanities | New Delhi | Delhi | India |
| 408. | Dr. Tadkeshwar Nath Mishra | Banaras Hindu University | DST-CIMS | Varanasi | Uttar Pradesh | India |
| 409. | G Mahesh Kumar | INSTITUTE OF AERONAUTICAL ENGINEERING | ASSISTANT PROFESSOR | Hyderabad | TELANGANA | India |
| 410. | Dr. Vinay Kumar Jadon | Anand Engineering College, Agra | Applied Sciences | Agra | UTTAR PRADESH | India |
| 411. | Srimathijagadeesan | KGISL INSTITUTE OF TECHNOLOGY | ECE | Coimbatore | Tamil Nadu | India |

FEEDBACK FORM:

6/18/2020

Attendance & Feedback Form-International Webinar "Quintic and Quinticated Nonlinear Oscillators"

Attendance & Feedback Form- International Webinar "Quintic and Quinticated Nonlinear Oscillators"

Webinar on "Quintic and Quinticated Nonlinear Oscillators" On 17th June 2020 at 11:00 AM.
Time: 11:00 AM-12:00 Noon
Organized by Department of Civil Engineering, Poornima College of Engineering
Thank You For Participating in our event. Please fill this quickly. Your Feedback is valuable to us.

* Required

1. Email address *

2. Full Name (Same will printed on Certificate) *

3. Institute / Company (Write Full Name, Same will printed on Certificate) *

4. Occupation *

Mark only one oval.

- ☐ Academician
☐ Industry
☐ Student
☐ Others

5. Contact No *


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6. Do you think webinar was useful for you? *

Mark only one oval.

- ☐ Yes
☐ No
☐ Maybe

7. Did you receive all the information you expected at the webinar? *

Mark only one oval.

- ☐ Yes
☐ No

8. How would you rate the webinar? *

Mark only one oval.

- ☐ Excellent
☐ Very Good
☐ Good
☐ Ok

9. How would you rate the organization of the event? *

Mark only one oval.

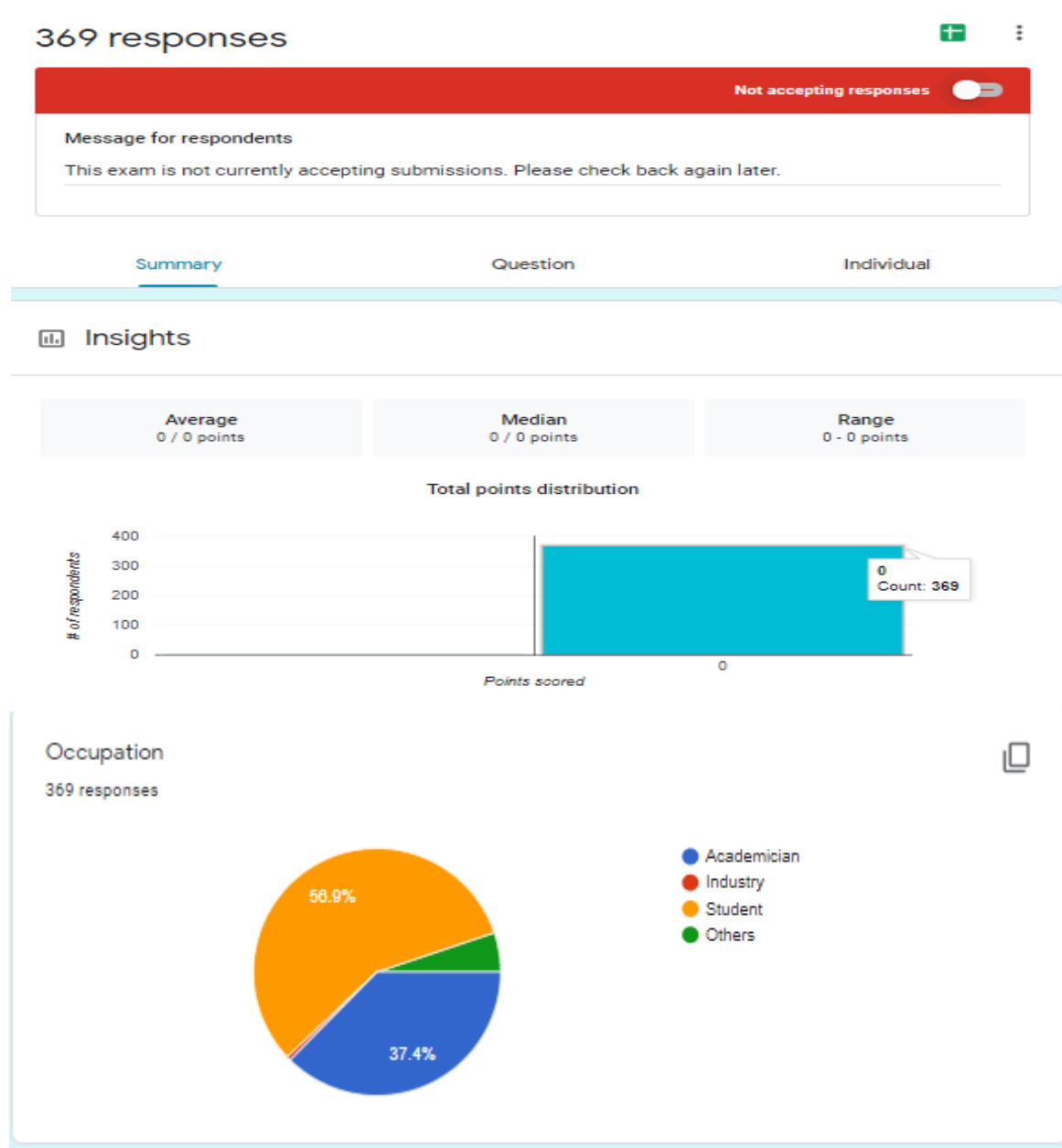
| | | | | | | |
|------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|
| | 1 | 2 | 3 | 4 | 5 | |
| Poor | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Excellent |

10. Would you like to attend any further webinar organized by the Department of Civil Engineering, PCE? *

Mark only one oval.

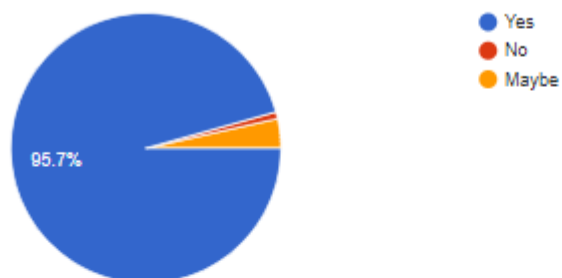
- ☐ Yes
☐ No
☐ Maybe

FEEDBACK ANALYSIS OF WEBINAR:



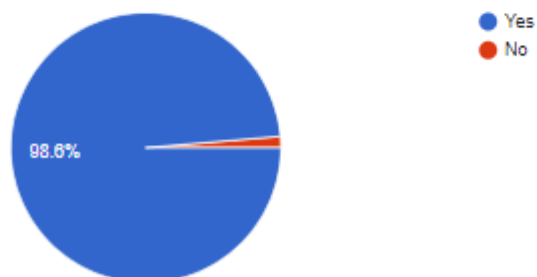
Do you think webinar was useful for you?

369 responses



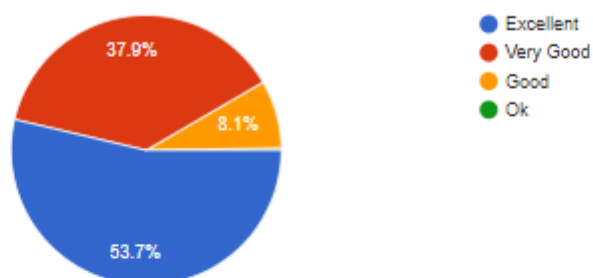
Did you receive all the information you expected at the webinar?

369 responses



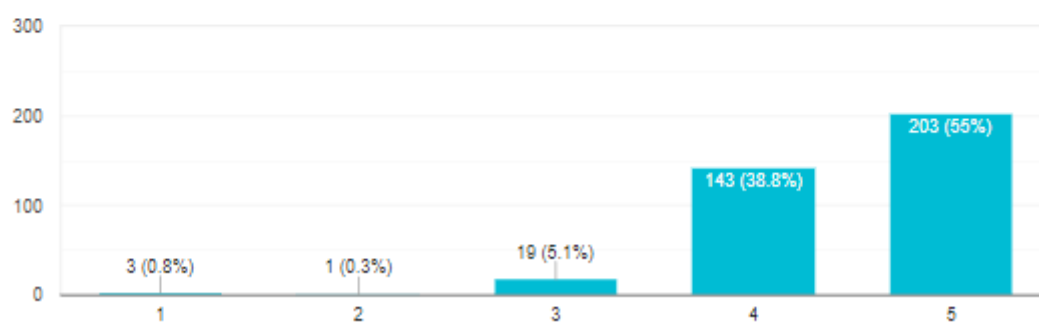
How would you rate the webinar?

369 responses



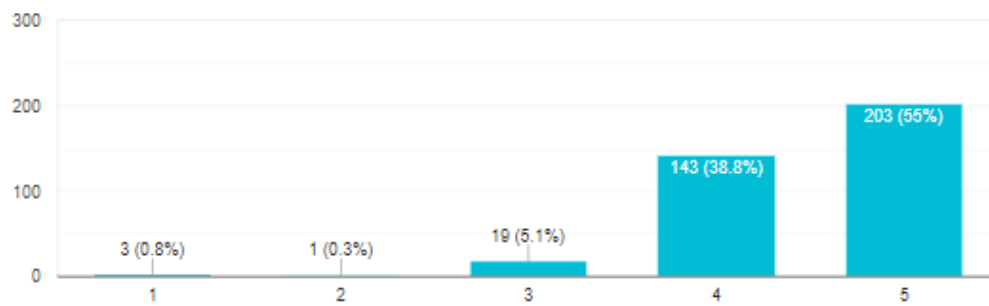
How would you rate the organization of the event?

369 responses



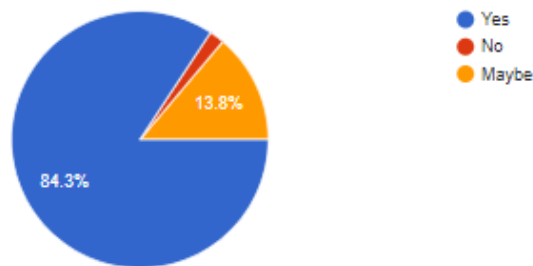
How would you rate the organization of the event?

369 responses



Would you like to attend any further webinar organized by the Department of Civil Engineering, PCE?

369 responses



Certificate format

| | | |
|---|---|---|
|  <p>सत्यमेव जयते Department of Science & Technology Govt. of India</p> |  | <h1>POORNIMA</h1> <h2>COLLEGE OF ENGINEERING</h2> <p>Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NBA</p> |
| <h3>Certificate of Participation</h3> | | |
|  | <p>This is to certify that _____ from _____</p> | |
| | <p>has attended International Webinar on “Quintic and Quinticated Nonlinear Oscillators ” organized by Department of Civil Engineering, Poornima College of Engineering, Under Matrix Project, SERB, DST, INDIA on June 17, 2020.</p> | |
|  <p>Dr. Shilpi Jain Coordinator</p> |  <p>Mr. Balwan Sheshma Head of Department</p> |  <p>Prof. Mahesh M. Bunde Director</p> |
| <p>For verification mail to registrar.pce@Poornima.org Certificate ID: _____</p> | | |


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GLIMPSE OF WEBINAR:

The top screenshot shows a Zoom webinar interface. The title bar indicates it is a 'Zoom Webinar' titled 'Q&Q Oscillators' by 'Daniele Ritelli'. The main content area displays the 'Introduction' slide. The slide text reads: 'The theory of nonlinear oscillators is an extremely active field of contemporary research, given the vastness of the phenomena modeled through nonlinear differential equations with periodic solutions. My talk is dedicated at the analysis of non-linear autonomous conservative oscillators of the form' followed by the equation
$$\begin{cases} \ddot{x} = f(x) \\ x(0) = a \\ \dot{x}(0) = 0 \end{cases} \quad (G)$$
 where we assume $0 < a < b$, $f : (-b, b) \rightarrow \mathbb{R}$ continuous and such that $f(-x) = -f(x)$ for any $x \in (0, b)$. The bottom screenshot shows the title slide of the presentation, 'Quintic and Quinticated Oscillators', featuring the Alma Mater Studiorum logo and the presenter's name, Daniele Ritelli, with his email address daniele.ritelli@unibo.it. The date '2020 June 17' is also visible.


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Poornima College of Engineering - Activity Report

Zoom Webinar

Dr. Sunil Kumar... Dr. Shilpi Jain Prof. (Dr.) Daniele Ritelli Rahul Singhi

LIVE on Facebook

11:06 PM 6/17/2020

First normalize the displacement a and then, approximate the restoring force at fifth-order, using Chebyshev polynomials, finally the approximated equation is solved explicitly. This technique, produces very accurate exact analytic approximate solutions which are detected by Theorems 2 and 3 and that are described in terms of Jacobian elliptic functions.

Chebyshev approximated problem

Given the general initial value problem (G) we can always normalize the displacement a with the change of dependent variable $u = x/a$ and, then, deal with the unitary initial value problem (N) below

$$\begin{cases} \ddot{u} = -\frac{1}{a} f(a u) \\ u(0) = 1 \\ u'(0) = 0 \end{cases} \quad (N)$$

Quintication

2020 June 17 22 / 35

Zoom Webinar Chat

From Kirti Sharma to All panelists: no audio

From Brijkishor Soni to All panelists: sir, can you ratifie this problem

From Anshul Achra to All panelists and attendees: no voice

From AMARJEET BHARTI to All panelists: sound not coming

From Brijkishor Soni to All panelists: prof. was do his mic on mute condition

From Dr. Vinay Kumar Jadon to All panelists: No audio

From Avinita Gautam to All panelists: no audio

From Harish Kumar Tomar to All panelists: no voice

From Brijkishor Soni to All panelists: ma'am, you have also done your mic on mute condition

From Zaheer Abbas to All panelists: voice is back

To: All panelists

Type a message here

Go to Settings to activate Windows.

Zoom Webinar

Recording LIVE on Facebook

11:42 AM 6/17/2020

Dr. Sunil Kumar... Dr. Shilpi Jain Prof. (Dr.) Daniele Ritelli Rahul Singhi

Mr. Balwan Shes... Dr. Mahesh Bun...

Dr. Mahesh Bundele
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Poornima College of Engineering - Activity Report

The screenshot shows a Zoom Webinar interface. The main window displays a presentation slide titled "Duffing quintic oscillator". The slide content includes:

Duffing quintic oscillator

We consider a Duffing oscillator, whose stiffness is an even function of displacement

$$\begin{cases} \ddot{x} = -x - x^5 \\ x(0) = a > 0 \\ \dot{x}(0) = 0 \end{cases} \quad (1)$$

where x represents the displacement and a is the oscillation initial amplitude, which rules the period of oscillation.

We make here the simplest choice considering all the coefficients equal to unity; in this way we establish, in the simplest context, how to treat quintic oscillators: then it will not be difficult to adapt the procedure to more general situations with not unitary coefficients. In the following we present its exact analytic solution

In order to compute integrals (τ) and (T) when $f(x) = -x - x^5$ we recall the elliptic integral tabulated in GR, section 3.145-2, formula 2, page 271:

$$\int_{\beta}^u \frac{dx}{\sqrt{(\alpha-x)(x-\beta)[(x-m)^2+n^2]}} = \frac{1}{\sqrt{pq}} F(\varphi, k), \quad \beta < u < \alpha \quad (2)$$

where $F(\varphi, k)$ is the incomplete elliptic integral of first kind, $p^2 = (m-\alpha)^2 + n^2$, $q^2 = (m-\beta)^2 + m^2$ and:

$$\varphi(u) = 2 \arccos \sqrt{\frac{q(\alpha-u)}{p(u-\beta)}}, \quad k^2 = \frac{1}{4} \frac{(\alpha-\beta)^2 - (p-q)^2}{pq} \quad (3)$$

The chat window on the right shows the following messages:

Zoom Webinar Chat

hello everyone... myself Dr. Bharti Shyam Lal College (Eve.), University of Delhi bhartislce@gmail.com

From Dr. Vinay Kumar Jadon to All panelists:
Good morning to all.
Dr. Vinay Kumar Jadon

From Me to All panelists:
good morning sir

From Deepak Bohra to All panelists:
good morning to all

From KANCHAN RANA to All panelists:
Name: Kanchan Rana Designation: Junior Research Fellow Organization: Himachal Pradesh Centre on Climate Change, HIMCOSTE, Shimla

From Zaheer Abbas to All panelists:
I guess the first page of the presentation contains his pic only

From Dr. Shuchi Dave to All panelists:
good morning all

From Me to All panelists:
Participant put their question on chat box

To: All panelists

Type a message here

Go to Settings to activate Windows.


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Poornima College of Engineering - Activity Report

Zoom Webinar

Dr. Sunil Kumar... Prof. (Dr.) Danle... Dr. Shilpi Jain Rahul Singh

LIVE on Facebook

19:19:12 (4)

Comparing power series (20) (exact) and (26) (approximated), we see that the first terms of both, associated at the leading power a^{-1} (a is close to zero) coincide, moreover coefficients are very close, as shown in the following Table 1, obtained with Mathematica

Quintication

Table: Numerical comparison between coefficients of (20) and (26)

| Coefficient of | a^{-1} | a^3 | a^7 | a^{11} | a^{15} |
|----------------|----------|----------|---------|-----------|----------|
| Exact | 7.4163 | -2.47210 | 1.32434 | -0.842701 | 0.590956 |
| Approximate | 7.4163 | -2.47461 | 1.32463 | -0.840173 | 0.591571 |

Zoom Webinar Chat

From Amit Kumar to All panelists and attendees:
no problem

From Avinita Gautam to All panelists:
no issue we are waiting

From Deepak Sarve to All panelists:
okay madam

From Mithlesh Prajapati to All panelists:
ok mam

From Deepak Bohra to All panelists and attendees:
ok ma'am

From Avinita Gautam to All panelists:
great

From Vishnu Nama to All panelists:
Attendance link...

From Ashish Kumar Rai to All panelists:
okay ma'am

From Dr. Anuradha... to All panelists and attendees:
any feedback link

From Ashish Kumar Rai to All panelists:
any feedback link

To: All panelists

Type Message here

Go to Settings to activate Windows.

Zoom Webinar

Dr. Sunil Kumar... Prof. (Dr.) Danle... Dr. Shilpi Jain Mr. Balwan Shes...

LIVE on Facebook

19:19:12 (4)

Quintic and Quintonized Oscillators

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Zoom Webinar Chat

From Deepak Bohra to All panelists:
can you send ppt to me

From PANKAJ SINGH to All panelists:
very informative & effective session
Thank you so much ma'am & your entire team also .

From Dr A K Malik to All panelists:
no voice

From Mithlesh Prajapati to All panelists:
send feedback link

From Avinita Gautam to All panelists:
was very nice and precise

From Dr. Anuradha... to All panelists and attendees:
mam please share feedback link.

From Me to All panelists:
Please fill the attendance link as soon as possible
Feedback link as the attendance of the today International Webinar
<https://forms.gle/AooUYvgpDMbop3HgZ>

From Deepak Bohra to All panelists:
please send feedback from

To: All panelists

Type Message here

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