



FOSS Group, IIST Introduction to Maxima

Indian Institute of Space Science and Technology, Thiruvananthapuram

DATE : Wednesday, March 22, 2017
VENUE : C-104, D4-building, IIST
TIME : 3:00 p.m. to 4:00 p.m.
SPEAKER : Nidish Narayanaa B
(B.Tech Sem VIII)

Maxima is a Free and Open Source Computer Algebra System (CAS). Written in Common LISP, the software focuses mainly on the manipulation of symbolic expressions, algebra and calculus.

The present discussion is an attempt to provide a tutorial introduction to using the platform for engineering and scientific purposes.

The following is a list of the sections that will be dealt with in the session.

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|-------------|---|----------------------------------|
| 1 | ● | Introduction |
| 2 | ● | Basics |
| 3 | ● | Plotting |
| 4 | ● | Solving Equations |
| 5 | ● | Matrices |
| 6 | ● | Calculus |
| 7 | ● | Symbolic Manipulation |
| 8 | ● | Integration with \LaTeX |
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P.S.: Participants are expected to come with a computer having a working maxima version installed.

Useful Links:

1. <http://maxima.sourceforge.net/>
2. <https://sourceforge.net/projects/wxmaxima/> (recommended front end)
3. <http://web.csulb.edu/~woollett/> (great resources)