

## PLUTO 3.01 has been released!

Contributed by Administrator  
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This new version contains a number of minor improvements and a few bug fixes.

The changes in detail are (see also the CHANGES file in the distribution):

- 1-D AMR extended to cylindrical and spherical coordinates.
- Entropy switch is available again for the MHD module.
- improved efficiency and accuracy of the GLM-MHD module.
- improved characteristic interpolation.
- CTU integrator is less memory consuming.
- Improved pload function (for IDL users) for large data sets.
- Bug fix in 3-D polar coordinates:  
the centrifugal term is now correctly included.
- Bug fix in 3-D Cartesian/MHD/FLUX\_CT + UCT\_CONTACT:  
the  $dE_y_{dxm}$  derivative was added to  $E_z$  instead of  $E_y$ .
- Bug fix in time step computation for viscous term: a division by density was missing.
- Bug fix in the vector potential in 2D Cylindrical coordinates:  
the  $\phi$  component of the EMF must flip sign before updating  $A_\phi$ .