

Contributed Talk

Splinter E-Science

FEDORA ASTRONOMY - INTEGRATION OF ASTRONOMICAL
SOFTWARE INTO A LINUX DISTRIBUTION

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Fedora Astronomy is an effort to improve the astronomical software ecosystem. Many fundamental software packages in astronomy are free software and required for the astronomers daily work. An example is the Astropy package with its many affiliated packages for more special applications, but also the AstrOmatic software like SExtractor and applications to access the Virtual Observatory. Fedora Astronomy is organized as a *Special Interest Group* (SIG) which takes care of the integration of astronomical software into the Fedora Linux distribution. The advantage of this way of software distribution is a well integration into the operating system and between the different packages. Another task of the Fedora Astronomy SIG is the deployment of a ready to use Linux environment for the purposes of both amateur and professional astronomers, the Fedora Astronomy Lab. Finally the Fedora Astronomy SIG discusses issues, for example changes in depending applications or licensing, with upstream developers and takes care of the cooperation with other distribution projects like Debian Astronomy.

The talk will cover the organization of the Fedora Astronomy SIG as well as the current state of Fedora Astronomy and its position in the astronomical software ecosystem. Furthermore possible improvements in scientific software distribution and schemes for cooperation between the different Linux distributions will be discussed.