

Meeting Notice _____ November 9, 2011

RITTENHOUSE ASTRONOMICAL SOCIETY

GUEST PRESENTER:

DR. HANNO REIN ~ EXOPLANET APPLICATION DESIGNER / AUTHOR
INSTITUTE OF ADVANCED STUDIES ~ PRINCETON

The Society invites members, guests and the interested public to our upcoming meeting (students encouraged to attend.) FREE/No admittance fee. Membership not required.

Topic:

The Dynamics of Extrasolar Planets

WHERE:

THE FRANKLIN INSTITUTE
222 20TH STREET & THE PARKWAY
PHILADELPHIA PA

What: Over 700 planets orbiting stars other than the sun, far beyond our own solar system, have been discovered. The question about the formation of these planetary systems is more exciting than ever before. We know surprisingly little about the early phase of our solar system. The data we get from other planetary systems can therefore help us to understand our own history.

The dynamical evolution is one of the most important aspects. The interaction of planets with the proto-planetary disc determines whether the planet ends up being very hot on a short orbit close to the star or as a habitable planet such as the Earth with moderate temperatures. It turns out that systems with multiple planets are especially interesting as their dynamical state still contains some information about the early phase.

When: **Wednesday, November 9, 2011**

7:15 PM. Meeting Opens, Sky Tonight Update, How the Universe Works (Lesson)
8:10 PM. – Dr. Hanno Rein: “THE DYNAMICS OF EXTRA SOLAR PLANETS”

Contact: Info: 215-633-0604

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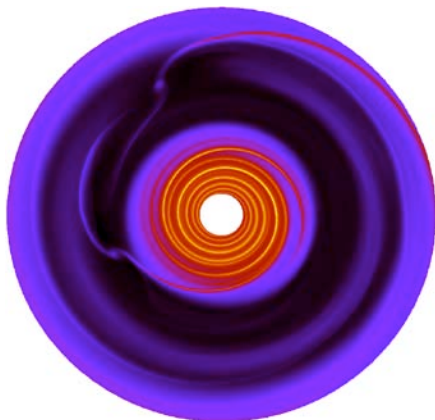
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Dr. Hanno Rein

Education: Ph.D., Astronomy, Cambridge University
Institute for Advanced Study (Princeton, NJ)

I will present several examples of planetary systems that I have worked on, using a variety of techniques, such as the 400 year old theory of orbital dynamics as well as modern super-computers.

The picture (opposite) is a plot of two planets interacting with a proto-planetary disc.