

Marin Science Seminar Presents

Connecting infinitesimal to infinity: The Search for Dark Matter

with Nader Mirabolfathi Ph.D.



**A one-hour multimedia presentation for Marin
High School Students and Teens in Marin**

Wednesday, October 24th, 2012

7:30 – 8:30 pm

Terra Linda High School, Room 207
320 Albion Way, San Rafael, CA 94903

"The Standard Model of Elementary Particles explains the smallest building blocks of nature & their interactions. Although the model is very successful, it's incomplete. A new physics is required. Likewise, at very large scales our observations of the Universe do not match our expectations. A new form of matter that doesn't emit or interact with light, Dark Matter, is required to explain our observations. I will speak about a new class of elementary particles, Weakly Interacting Massive Particles (WIMPs), which resolve these inconsistencies in our understanding of nature at both ends of the size spectrum. I will also explore experimental efforts to detect these particles in terrestrial laboratories."

Nader Mirabolfathi trained as an electrical engineer and earned his PhD in elementary particle physics & cosmology at the University of Paris. He did his postdoctoral studies at UC Berkeley from 2002 to 2004 has been Associate Research physicist at UC Berkeley since 2008.

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