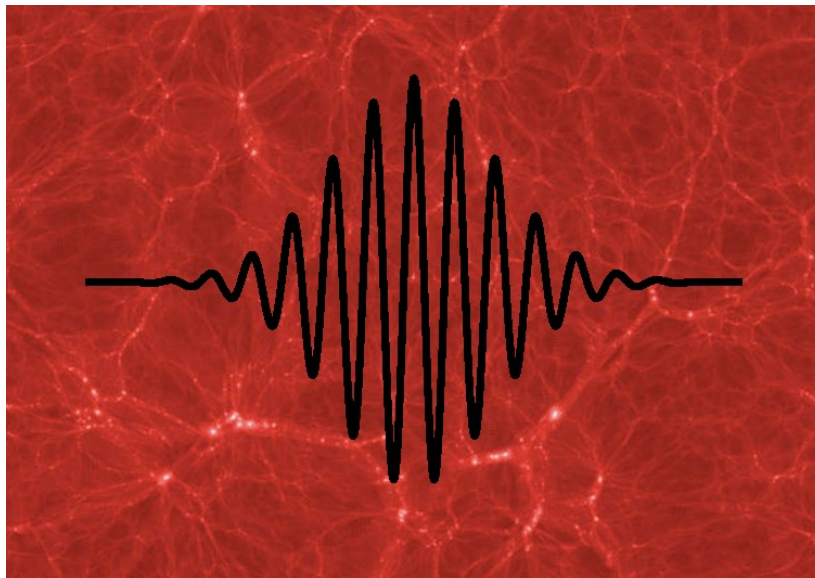


The Search for the Schwinger Effect: Non-perturbative Pair Production from Vacuum.

Gerald Dunne (University of Connecticut)

Special
time!

Tuesday, 9 July 2013, 17:00 h, Auditorium



The prospect of next-generation ultra-high-intensity laser sources has prompted recent renewed study of the Schwinger effect, in which the instability of the QED vacuum is probed by external fields. Experimental observation of this long-sought effect would provide controlled access to non-perturbative processes in quantum field theory under extreme conditions, which is of direct interest in particle physics and astrophysical applications. I review why this is also such an interesting and challenging theoretical problem.

- **Coffee, tea and cookies will be served at 16:45h**
- **After the seminar there is a chance for private discussions with the speaker over wine and pretzels**