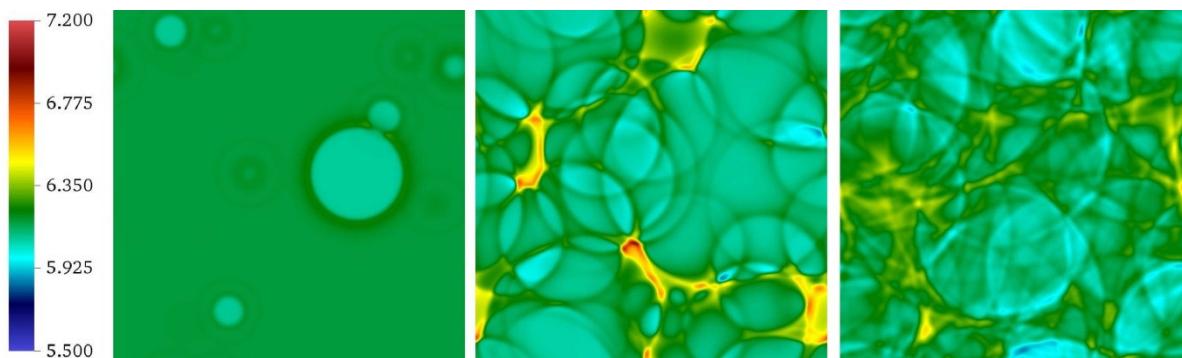




Cosmological probes of electroweak symmetry breaking.

Thomas Konstandin (DESY)

Tuesday, 3 March 2015, 16:45 h, Auditorium



Simulation of sound waves during a cosmological phase transition

The Large Hadron Collider at CERN currently investigates how the electroweak symmetry is broken in Nature. In the Standard Model, this amounts to studying the elusive Higgs particle. However, the scalar sector could contain more than just one Higgs field and comprise a much richer structure. In this case, the breaking of the electroweak symmetry via a phase transition can have far-reaching implications in cosmology. For example, the observation of gravitational waves can provide information on how the electroweak symmetry was broken during the course of the Universe that is complementary to collider experiments. In this talk, I review the basic properties of cosmological phase transitions and discuss the related cosmological probes.

Coffee, tea and cookies will be served at 16.30

After the seminar there is a chance for private discussions with the speaker over wine and pretzels