

Particle Physics/High Energy Seminar

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"Signatures from reheating after inflation: gravitational waves and primordial magnetic fields"

Cosmological Inflation is a robust paradigm that has many concrete predictions for the origin of large scale structures of matter and cosmic microwave background anisotropies, all of which are consistent with present observations. Moreover, recently a new window has been opened into the very beginning of the universe via the production of a stochastic background of gravitational waves as well as the generation of the primordial seed for galactic magnetic fields at preheating after inflation. These backgrounds could be detected in the future and will help put very stringent constraints on the physics of the Big Bang.

Tuesday January 22, 2008
4:10PM - Room 416 PHY/GEO