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ARNOLD SOMMERFELD  
CENTER FOR THEORETICAL PHYSICS



# Sommerfeld Theory Colloquium

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**Did the Universe undergo the stage  
of catalyzed nuclear fusion?**

If the upcoming LHC experiment discovers long-lived heavy charged particles, often predicted in the supersymmetric versions of the Standard Model, one should not get overly surprised:

we may already see hints on their existence in the observations of the primordial lithium abundance! In this talk, I explain how the big bang nuclear chemistry works, and how the non-standard particle physics can catalyze nuclear reactions, drastically changing the abundance of trace elements such as lithium and beryllium.

Wednesday, 12<sup>th</sup> December 07, 11:15 h, Room 348 / 349, Theresienstr. 37 / III