



Contribution ID: 90

Type: **Talk (virtual)**

Simulating the Early Universe

Tuesday 6 September 2022 12:20 (20 minutes)

The Numerical Cosmology Group at UHCL has been working for several years to develop the most accurate simulations of the Early Universe possible in order to answer several basic questions such as when did the first magnetic fields develop? In addition, our numerical code can be used to test several fundamental theories in physics. In this presentation, I plan to talk about how we developed this simulation software and what we have already learned from using it. The primary focus of this talk will be Magnetogenesis or the creation of the first magnetic fields in the universe.

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