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Cosmology of Fibre Inflation Models

Monday, 20 August 2018 15:00 (30 minutes)

I will describe several features of type IIB Fibre Inflation models like:

- (i) how to construct a chiral global embedding into consistent Calabi-Yau orientifold compactifications;
- (ii) the presence of an inflaton upper bound from the Kahler cone conditions;
- (iii) the details of perturbative reheating and the associated production of dark radiation;
- (iv) the generation of primordial black holes during inflation and their contribution to dark matter;
- (v) open issues with light axionic spectator fields during inflation.

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Academic position

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