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**Particle Cosmology  
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## **Modular Inflation in F/M-Theory: Insights from Studies of the Holomorphic Sectional Curvature**

*Thursday, 25 September 2014 15:20 (20 minutes)*

We present preliminary results regarding the validity of inflation being driven by Kahler moduli fields in Calabi-Yau compactifications of arbitrary dimension. By studying the moduli space geometry in the supergravity limit of F-theory constructions, we are able to test the viability of modular inflation in the context of Type IIA/B and M-theory. We end by commenting on a mathematical inconsistency realized within the context of the G2-MSSM which suggests the presence of non-trivial quantum corrections to the Kahler potential in these models.

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