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Supersymmetric Higgs Inflation at Colliders

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We study a scale-invariant minimal supersymmetric Standard Model which allows for an implementation of inflation in the early universe. This model has the same field content as the Next-to-Minimal Supersymmetric Standard Model (NMSSM) thus can be distinguished by observations in the scalar sectors. A crucial role play the singlet components. We point out that there might exist light singlet-like states with a different phenomenology from the ordinary (Z3-invariant) NMSSM.

Primary author: Dr HOLLIK, Wolfgang Gregor (KIT)

Co-author: MOORTGAT-PICK, Gudrid (University of Hamburg / DESY)

Presenter: Dr HOLLIK, Wolfgang Gregor (KIT)

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