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Sequestered Inflation

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I describe the Sequestered Inflation as presented in the recent works with M. Gunaydin, A. Linde, Y. Yamada and T. Wrase in 2008.01494, 2108.08491, 2108.08492. We construct supergravity models allowing to sequester the phenomenology of inflation from the Planckian energy scale physics. The procedure consists of two steps: At Step I we study supergravity models associated with string theory or M-theory and find supersymmetric Minkowski vacua with flat directions. The corresponding massless Goldstone supermultiplets are related to the symmetries of flux superpotentials. At Step II we uplift these flat directions to inflationary plateau potentials using the nilpotent multiplet. The sequestered models include seven hyperbolic disks. Their predictions are among the main B-mode targets for future CMB experiments.

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