

## High U(1) charge models in type IIB and their F-theory lift

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In the quest of obtaining models with U(1) symmetries singlets with charges higher than 4 there is no systematic prescription from the point of view of F-theory. Following early work, where we worked out Sen's weak coupling limit for a family of F-theory standard models we now are able to systematically construct higher U(1) charge models in type IIB applying matrix factorization techniques, in this fashion we are able to obtain models with singlet charges  $q \leq 6$ .

**Primary author:** MAYORGA PEÑA, Damian Kaloni (DCI, University of Guanajuato)

**Co-authors:** Mr CIANCI, Francesco (University of Trieste); Dr VALANDRO, Roberto (University of Trieste ICTP)

**Presenter:** MAYORGA PEÑA, Damian Kaloni (DCI, University of Guanajuato)

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