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### (Submitted on 30 Apr 2012)

R. Paul Horja

We generalize the combinatorial description of the orbifold (Chen--Ruan) cohomology and of the Grothendieck ring of a Deligne--Mumford toric stack and its associated stacky fan in a lattice \$N\$ in the presence of a deformation parameter \$\beta \in N \otimes {\mathbb C}.\$ As an application, we construct a topological mirror symmetry map that produces a complete system of \$\Gamma\$--series solutions to the better behaved version of the GKZ hypergeometric system for \$\beta \in N \otimes {\mathbb C}.\$

**Toric Deligne-Mumford stacks and** 

the better behaved version of the

**GKZ** hypergeometric system

Comments:	LaTex, 19 pages; submitted as a contribution to the volume "Strings, Gauge Fields, and the Geometry Behind - The Legacy of Maximilian Kreuzer"
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Subjects: Algebraic Geometry (math.AG); High Energy Physics -Theory (hep-th) MSC classes: 13N10, 14D23, 14M25

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