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Algebra-geometrical orientifolds and IR dualities

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Orientifold projections are an important ingredient in geometrical engineering of Quantum Field Theory. However, an orientifold can break down the superconformal symmetry and no new superconformal fixed points are admitted (II scenario); nevertheless, in some cases, dubbed I and III scenarios orientifold, a new IR fixed point is achieved and, for III scenario examples, some still not fully understood IR duality seems to emerge. Here we give an algebra-geometrical point of view of III scenario orientifold for toric varieties and we propose the existence of relevant operators that deform the starting oriented CFT triggering a flow. If time permits We will briefly discuss a possible holographic description of this flow.

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