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Title: Brieskorn singularity and intersection theory

Abstract:

Hyperbolic Gorenstein quasi homogeneous surface singularity (GQHSS) of level p has 1 to 1 correspondence with p - spin structure of Riemann orbifolds. The intersection numbers of p -spin curve of compact Riemann surface has been obtained by the contour integral representation for all genus (Brezin - H. SpringerBrief math. phys. 19). The punctures on non-compact Riemann surface is discussed by the recent study of super Riemann surface (Brezin - H. arXiv: 1805.04240).