

Classification of genus-1 simplified broken Lefschetz fibrations

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Abstract. Broken Lefschetz fibrations were introduced as a generalization of Lefschetz fibrations to near-symplectic setting. In this talk, we first construct a family of genus-1 simplified broken Lefschetz fibrations. We then show that all genus-1 simplified broken Lefschetz fibrations with small number of Lefschetz singularities are contained in the family we construct.