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Stability Conditions and Non Crossing Tree Partitions

Noncrossing tree partitions were introduced by Garver and McConville to obtain an explicit description of the wide subcategories in the module category of a family of representation finite gentle algebras. Very recently, it was proven by Yurikusa that for any finite dimensional algebra of finite representation type its wide subcategories are realizable as semi-stable subcategories in the sense of King. Our goal is to provide a combinatorial construction of Yurikusa's stability conditions for the wide subcategories defined by noncrossing tree partitions. This project is the result of a Mitacs Globalink Research Internship hosted by UQAM.