## On graphs with smallest eigenvalue -3 and their lattices

Jae Young Yang

March 6, 2019

Cameron et al. and Hoffman classified graphs with smallest eigenvalue -2. In the classification of Cameron et al., they used the classification of irreducible root lattice by Witt. In this talk, we follow Hoffman's idea which is called Hoffman graph, and present how this theory works for graphs with smallest eigenvalue -3 and their lattices.