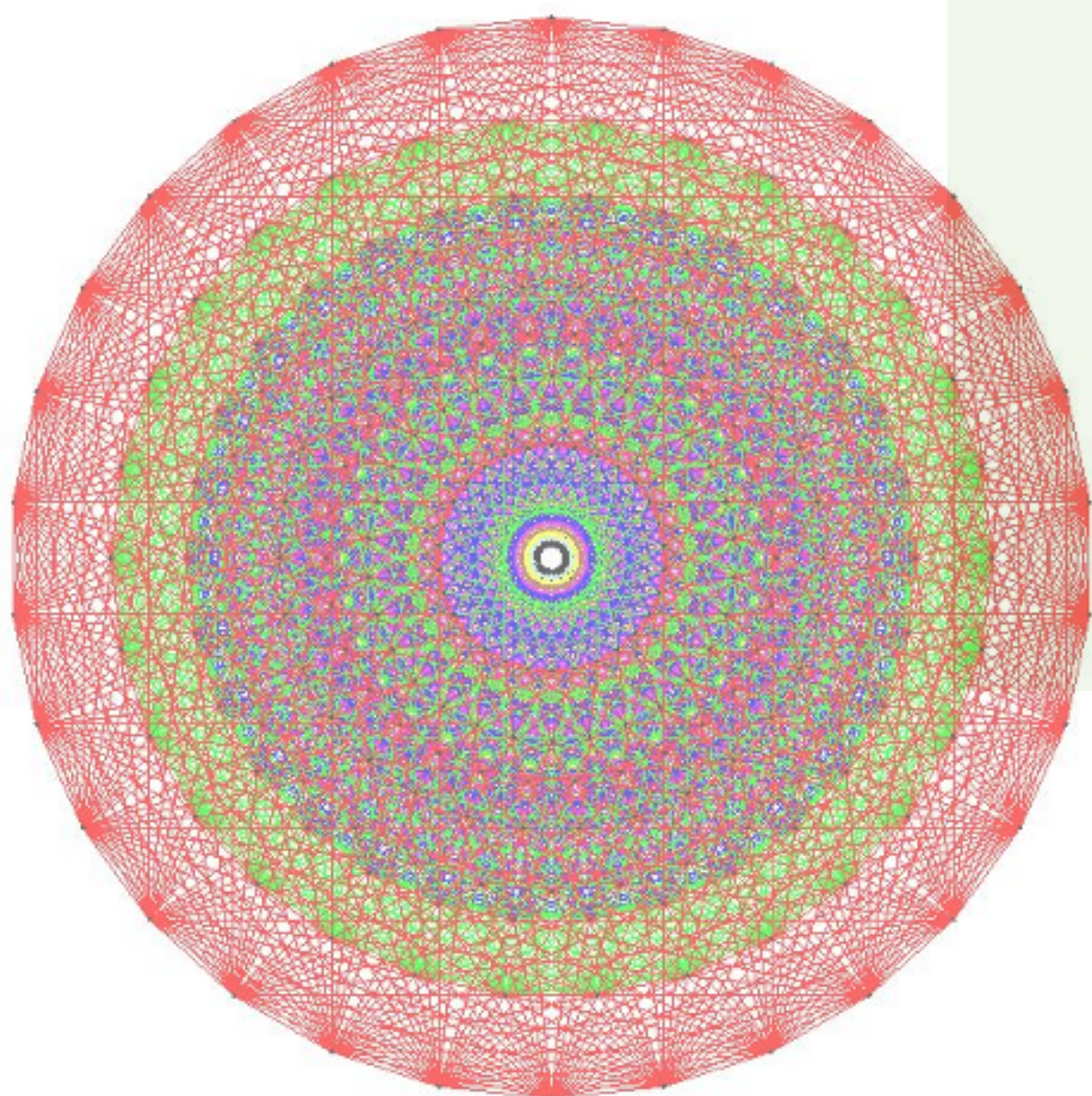


Real Algebraic Groups and Applications to Embedding Algorithms²

Hassan Azad (KFUPM)

A problem of algorithmic interest is how to embed given Lie algebras of prescribed types into maximal ones of the same type. These algorithms are given in a recent preprint ([arxiv:1603.08167](https://arxiv.org/abs/1603.08167)).

One needs these algorithms to give invariant solutions of differential equations. I will discuss briefly the main tools used in devising such algorithms.



11:00PM August 3, 2017

Seminar Room

Abdus Salam School of Mathematical Sciences