

Sub-maximal symmetric models for geometric structures

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Date / Time / Location: Wed. February 29, 2012, 10:00 - 11:00, JD35.

Abstract:

For many finite type geometric structures, especially for those arising in parabolic geometries, the following phenomenon is often observed. The maximal symmetric model is unique and there is the dimensional gap between the maximal and the sub-maximal models. In this talk I will show some examples and then explain one general theorem partially clarifying this effect. I will consider in details the case of rank 2 distribution in the spaces of 5 and 6 dimensions.