

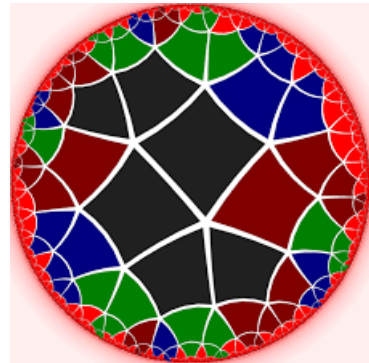
## Oberseminar Geometrie

Department of Mathematics

University of Fribourg

Seminar Room 0.05 PER23

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## Representations on infinite-dimensional hyperbolic spaces

The infinite-dimensional hyperbolic spaces are defined and some generalities of the group representations in their isometry groups will be presented. The functions of complex hyperbolic type defined by Monod are a fundamental tool when studying infinite-dimensional representations. These functions play a role with respect to hyperbolic representations analogous to that of positive type functions with respect to unitary representations. With this tool, the representations of the groups  $\mathrm{PU}(1,n)$  and  $\mathrm{PO}(1,n)$  will be addressed.