Grothendieck's dessins d'enfants

Fiat Yasar (IRMA Strasbourg)

Abstract:

After the celebrated theorem of Belyi, which constructs a bridge between curves defined over number fields and certain coverings of the complex projective line, Grothendieck launched in the 1980's, in his famous Equisse d'un Programme that such coverings is completely determined by the pre-image of the real interval [0,1] which he named a dessin d'enfant by him.

In this talk, I aim to explain general aspects of theory of dessins d'enfants and introduce an action of the group PGL(2,Z) on them.