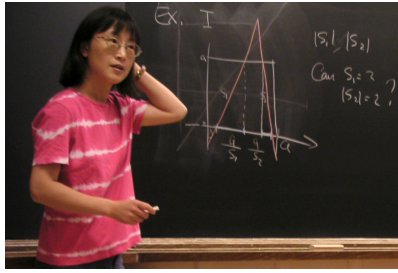


## Complex dynamics and quasi-conformal geometry.



ID de Contribution: 16

Type: Non spécifié

### On combinatorial types of Cycles under $z^d$

mercredi 25 octobre 2017 09:00 (55 minutes)

The talk is based on joint work with Saeed Zakeri. Rotation sets for  $z^d$ , sets on which  $z^d$  is topologically conjugate to a rigid rotation, are well studied in the literature. Much less is known about periodic orbits of other types of combinatorics.

To be precise by a combinatorics (of period  $q$ ) we mean a dynamics on  $0 < x_1 < x_2 < \dots < x_q < 1 \in$

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fixing  $0 \equiv 1$  and which acts as a permutation of order  $q$  on the  $x_i$ .

Which combinatorics are realized under  $z^d$ ? In how many distinct ways is a given combinatorics realized?

How does this number depend on the degree  $d$ ?

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