



Beijing-Saint Petersburg Mathematics Colloquium

Tuesday June 16 at 16:00

zoom ID 665-9289-6418, password is 6 numbers: 4758 followed by the order of symmetry group S_4

Jiang Meiyue (School of Mathematical Sciences, Peking University)

«Periodic and quasi-periodic solutions of 1-d Q-curvature equation»

We will discuss the existence of periodic or quasi-periodic solutions of the prescribed Q-curvature equation of circle with metric g as follows: $u^{(4)} + 10u^{(2)} + 9u = \frac{9}{u^{5/3}}$. Some explicit π -periodic and 2π -periodic solutions are well-known. We will discuss the existence of other type periodic solutions or quasi-periodic solutions of this equation via variation methods.

Everyone is welcome!