



Speaker: Gou Nakamura, Aichi Institute of Technology.

Title: Symmetric Riemann surfaces derived from extremal Klein surfaces of genus three.

Abstract: In this talk we consider non-orientable closed Klein surfaces of genus three that contain the metric disk with the largest radius determined by the Euler characteristic. We call such a surface an extremal Klein surface of genus three and know that there are 11 up to isomorphism. We make symmetric Riemann surfaces of genus two by taking the complex double of these surfaces and study them in the Teichmüller space of a closed Riemann surface of genus two. In particular, we compare these symmetric Riemann surfaces with extremal Riemann surfaces.