## 数論セミナー

日時：2022年4月15日（金）16：40～
場所：Zoom 開催
講演者：安冨 真一（東邦大学）
講演題目：Billiards in a circle with trajectories circumscribing a triangle
We consider a bar billiards problem for a triangle in the unit circle．For the point on the unit circle，we construct a line from it in a counterclockwise direction tangent to the triangle，and examine a map corresponding to the point of intersection with the circle．For the rotation number $\rho$ of this map， we give $\frac{1}{3} \leq \rho<\frac{1}{2}$ and necessary and sufficient conditions for $\rho=\frac{1}{3}$ ，which is related to an ellipse．We give partial results with respect to $\rho=\frac{2}{5}$ ．These results yield elementary geometry results．This is joint work with Takeo Noda in Toho University．

