東北大学大学院情報科学研究科
純粋・応用数学研究センター

情報数理談話会のお知らせ

日　時： 2024年4月10日㈫ 16:00 より 17:00 まで
場　所： 東北大学大学院情報科学研究科棟 2階大講義室

講演者： Edy Tri Baskoro 氏　(Institut Teknologi Bandung)
題　目： On Ramsey Minimal Graphs

[概 要] Ramsey theory always attracts everybody. For any graphs F, G and H, we write the notation $F \to (G, H)$ means that for every 2-coloring on the edges of graph F, there exists either a copy of G in the first color or a copy of H in the second color. A graph F is called a Ramsey (G, H)-minimal graph if F satisfies the following two conditions: (i) $F \to (G, H)$, and (ii) $F - e \not\to (G, H)$ for any edge $e \in E(F)$. In general, finding all Ramsey (G, H)-minimal graphs for fixed graphs G and H is a difficult task. Even, it is for small graphs G and H. In this talk, we are going to present and discuss some challenges in finding Ramsey (G, H)-minimal graphs for certain graphs G and H. In particular if $(G, H) = (C_n, K_{1,t})$ or $(G, H) = (mK_2, H)$, for any graph H and integers $m, t \geq 2$ and $n \geq 4$.

ホームページ：https://www.math.is.tohoku.ac.jp/research/colloquium.html