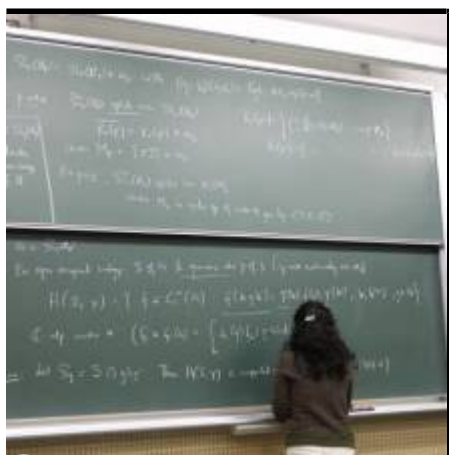


第02回

- 講演者: **Soma Purkait** 氏 (東京理科大学)
 - 題目: Hecke algebra of $\mathrm{DSL}_2(\mathbb{Q}_p)$ and newforms of half-integral weight
 - 日時: 平成29年4月27日 (木) 17:00 – 18:00

The Hecke algebra of $\mathrm{GL}_2(\mathbb{Q}_p)$ with respect to Iwahori subgroup is well-known. We extend this to study genuine Hecke algebra of the double cover $\mathrm{DSL}_2(\mathbb{Q}_p)$ with respect to certain open compact subgroups. We translate certain elements of this Hecke algebra to obtain classical operators on the space of cusp forms of half-integral weight. We use these operators to identify the "minus space" of level $(4M)$, M odd and square-free. Our minus space is the counterpart of Kohnen's plus space in the sense that it is Hecke isomorphic to $(S_{2k}^{\mathrm{new}}(2M))$. In an analogy with our work in the integral weight setting we show that the minus space is characterized as a common eigenspace of certain finite set of operators with given eigenvalues. This is a joint work with Prof. E. M. Baruch.



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