第02回

- 講演者 : **志賀 弘典** 氏（千葉大学）
  - 題目 : Modular functions on the 2-dimensional hyperball with application to number theory
  - 日時 : 平成27年5月15日（金）16:40 – 17:30

The elliptic modular function $j(\tau)$ is an automorphic function on the complex upper half plane \(\bf H\) with respect to the modular group ${\it SL}_2 ({\bf Z})$. It has many applications to number theory. Starting from the hypergeometric function of 2-variables, we can construct explicit modular functions on ${\bf B}^2$ (the 2-dimensional hyper ball). They are called Picard modular functions. It is one typical way to have 2-dimensional analogs of $j(\tau)$, another one is the Hilbert modular function. In this talk we explain one Picard modular function and its application to the complex multiplication theory of higher degree. [<6>]

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