YONSEI
Math-CSE Colloquium

The distribution of Selmer ranks of Jacobians of hyperelliptic curves

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In algebraic number theory, the theory of elliptic curves plays a very important role. For example, Andrew Wiles proved the Fermat's last theorem by establishing the modularity of semistable elliptic curves over the rational field. In the first half of the talk, we discuss the basic theory of elliptic curves. Selmer groups and quadratic twists will be introduced as tools to study elliptic curves. We will also talk about generalizations of the results on elliptic curves to the family of hyperelliptic curves.

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Sci.Building #225, Yonsei University (대면강연)

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