Science Program presents

Is there a Galois Theory for Transcendental Numbers?

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Galois theory is a classical tool for studying numbers which are solutions of algebraic equations with integer coefficients. The goal of this talk will be to discuss to what extent Galois theory can be applied for studying transcendental numbers such as ln(2) and Pi, etc. Answering this question will give us the opportunity to get a glimpse of the theory of motives as imagined by A. Grothendieck.

Dr. Ayoub is a distinguished young mathematician, with deep and broad research interests in algebraic geometry and related fields. His most recent honors include being an invited speaker at the International Congress for Mathematicians in 2014 and receiving the K-theory prize in 2014.

He concluded his undergraduate studies at the Ecole Normale Superieure in Paris in 2003, and his PhD from the university of Paris 7 in 2006, receiving the prize for best thesis in mathematics. He had since held positions at the Institute for Advanced studies in Princeton, and at the CNRS in Paris, and is currently and assistant professor at the university of Zurich.

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