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**Math Colloquium Talk**

**Title:** On Several Classical Number Theory Problems

**Guest Speaker:** Cai Tianxin, Department of Mathematics, Zhejiang University

**Time and Date:** 11:00AM on Thursday, October 4, 2018

**Room:** SE 215

**Abstract:**

Chinese classical mathematics was deeply related with number theory, such as Chinese Remainder Theorem (we call it Qin Jiushao Theorem). Inspired by the Ying-Yang idea and the ABC conjecture, we raise the variants of several classical number theory problems, which are the combination of additive and multiplicative equations, e.g., perfect number problem, Waring's problem, Fermat's Last Theorem and Hilbert's 8th problem.

**Guest Speaker Brief Bio:**

Dr. Tianxin Cai is a professor of mathematics at Zhejiang University in China, as well as a poet and essayist. He is the author of over 30 books of poetry, essays, travels, photographs, autobiography and academic works on number theory. His work has been translated and published into more than 20 languages, including three books in English and two in Spanish. He is the winner of the 2013 Naji Naaman Poetry Award (Beirut) and the 2017 National Award of Science and Technology(Beijing) for his book of essays: *Mathematical Legends*.

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