

ANTRITTSVORLESUNG



Univ.-Prof. Dr. Manuel Kauers

Institut für Algebra

Manuel Kauers was born in Germany and studied computer science at the University of Karlsruhe from 1998 to 2002. In 2002 he moved to Linz and started to do a PhD on symbolic computation under the supervision of Peter Paule. He earned his doctoral degree in 2005, and a habilitation in mathematics in 2008. In 2009 he was awarded the START prize. Since June 2015, Manuel Kauers is full professor at JKU and head of the Institute of Algebra. His main research area is computational algebra.

Montag, 25. Jänner 2016, 16:00 Uhr¹
Repräsentationsräume der JKU, 1. Stock (Uni-Center)

Algebra and Algorithms

Algebra is the part of mathematics that tries to characterize the the laws underlying common operations such as addition and multiplication. Algorithms are the systematic procedures underlying a computer program. Nowadays, most of modern algebra has nothing to do with algorithms, and most algorithms have nothing to do with algebra. However, both concepts share historically the same origin. Starting from this origin, we will illustrate that even today algebra and algorithms are not necessarily in opposition to each other, but they ideally form a symbiosis: the most exciting topics of algebra are often those that are related to algorithms, and the most exciting algorithms are often those that are related to algebra.

¹ Zu diesem Termin findet zuerst die Antrittsvorlesung von Herrn Prof. Kauers und anschließend jene von Herrn Prof. Müller statt.