

**Preliminary version of the scientific program of the international conference**

**«Computer Algebra in Scientific Computing»**

**Plenary lectures by invited speakers**

Status of the lecture	Speaker	Title
Plenary lecture	Poslavsky Stanislav Vladimirovich	Rings: an efficient JVM library for commutative algebra
<b>Abstract:</b> Rings is an efficient lightweight library for commutative algebra written in Java and Scala languages. Polynomial arithmetic, GCDs, polynomial factorization and Groebner bases are implemented with the use of modern asymptotically fast algorithms. Rings can be easily interacted or embedded in applications via a simple API with fully typed hierarchy of algebraic structures and algorithms for commutative algebra. The use of the Scala language brings a quite novel powerful, strongly typed functional programming model allowing to write short, expressive, and fast code for applications. At the same time Rings shows one of the best performances among existing software for algebraic calculations. Specific attention in the talk will be paid to the design patterns, implementational aspects, benchmarks and some practical applications.		
Plenary lecture	Chee Yapp	TBA
<b>Abstract:</b> TBA		
Plenary lecture	Elisanda Feliu	TBA
<b>Abstract:</b> TBA		