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The event will also
celebrate Peter Bürgisser and
his contributions to the field
on the occasion of his
60th birthday.

geometry in complexity and computations.

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MICHAEL WALTER
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DESCRIPTION

The conference is planned as a follow-up event to the Simons Institute program Algorithms and Complexity in Algebraic Geometry. The program successfully increased the exchange and collaboration between algebraic geometers and computer scientists. On the one hand, advances in computer science have spawned the field of computational algebraic geometry, which has led to the development and implementation of new algorithms solving complex problems in nonlinear algebra. On the other hand, algebraic methods have been used to prove results in the theory of complexity, naturally a branch of computer science, but now taking up concepts from algebraic geometry. Both perspectives are positioned within the framework where researchers from both fields, algebraic geometry and computer science, study the geometry of problems in complexity and computations. With our conference, we contribute to this research program. We are convinced that it will spark new ideas and initiate promising new research directions.

For full program &
further information scan here: