



SCAN ME

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AGATES

Algebraic Geometry with Applications to Tensors and Secants

Focus points: classical theory of tensors, applications in complexity theory,
moduli spaces behind tensors, applications in mathematical physics

$$\sigma_r(\mathbb{P}(A) \times \mathbb{P}(B) \times \mathbb{P}(C)) \subset \mathbb{P}(A \otimes B \otimes C)$$

$$\underline{R}(T) \leq r \Leftrightarrow \exists I \in \text{Slip}_r I \subset \text{Ann}(T)$$

$$i(t) = \frac{\log \lim_{n \rightarrow \infty} (R(T^{\boxtimes n})^{1/n})}{\log \lim_{n \rightarrow \infty} (Q(T^{\boxtimes n})^{1/n})}$$

$$\omega = \liminf_{n \rightarrow \infty} \log_n (R(\mu_{\langle n, n, n \rangle})) \stackrel{?}{=} 2$$

$$|101\rangle + |110\rangle + |002\rangle + |020\rangle + |200\rangle$$

$$a_1 \otimes b_1 \otimes c_2 + a_1 \otimes b_2 \otimes c_1 + a_2 \otimes b_1 \otimes c_1$$

Banach Center and Math @ University of Warsaw

September 12 - December 16, 2022

- Sep 12 - Sep 16: Introductory school
- Sep 19 - Sep 23: Kickoff workshop
- Oct 4 - Oct 7: Workshop on tensors from the physics viewpoint
- Oct 24 - Oct 28: Geometry of secants workshop
- Nov 14 - Nov 18: Algebraic geometry and complexity theory workshop
- Nov 21 - Nov 25: Tensors in statistics, optimization and machine learning
- Dec 5 - Dec 9: Deformation theory workshop

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