



Mathematics and CS Seminar

Quantum approximations of algebraic representations

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To a fixed root system one can associate various representation theories. Among the more challenging are the representations of algebraic groups over a ground field of positive characteristic (the modular case), and of quantum groups at a root of unity (the quantum case). Lusztig and Lusztig-Williamson conjectured the existence of infinitely many generations of representation theories, the quantum case being the first generation, and the modular case being the limit at infinity (for big enough prime characteristics). For a fixed root system we provide a framework that includes both the modular and the quantum case, and that allows to define infinitely many approximations in between. These approximations might serve as a candidate for the Lusztig-Williamson generations.

Thursday, March 9, 2023 01:00pm - 03:00pm

Heinzel Seminar Room (I21.EG.101), Office Building West, ISTA



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