

Środowe seminarium w Instytucie Fizyki

October $27^{th} - 12:00$

Dr. Chiara Marletto

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$"Witnesses\ of\ non-classicality\ beyond\ quantum\\ theory"$

The theory of quantum computation has brought us rapid technological developments, together with remarkable improvements in how we understand quantum theory. I will describe the foundations of a programme to extend the quantum theory of computation beyond quantum theory itself, based on the recently proposed constructor theory. I will then explain a recent application of this new approach to the problem of witnessing quantum effects in gravity.