

GRADUATE SEMINAR

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Universal matrices for the Weyl commutation relations for p -th order unitaries

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1:30 pm

University of Regina

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Abstract: In my previous lecture, I determined the algebra generated by two p -th order $d \times d$ unitary matrices that satisfy the Weyl commutation relations. In this lecture, I will explain why any two of the three classical Weyl unitaries are universal for pairs of p -th order unitary matrices satisfying the Weyl commutation relations, and I will show that the triple of classical Weyl unitaries fails to be universal for the Weyl commutation relation involving three p -th order unitaries.

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