

Seminar of differential equations will continue on **December 2, 2019 at 12pm in lecture room M5.**

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### **Floquet theory for q-difference equations**

Abstract:

In this talk, we introduce q-periodic functions in quantum calculus and study the first-order linear q-difference vector equation for which its coefficient matrix function is q-periodic and regressive. Based on the new definition of periodic functions, we establish Floquet theory in quantum calculus.