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Equations aux dérivées partielles non-linéaires, théorie spectrale et applications

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Title : Difference Equations vs. Differential Equation: oscillatory behavior and others similarities

Abstract : The difference equations is related with differential equations as the discrete mathematics is related with the continuous mathematics. However the methods used to study the behavior of this equations can be very different because some properties of the difference equations don't hold when we study the differential equations. Usually it is easier to work with difference equations. On this work we will analyse the oscillatory behavior of some difference equations and differential equation and to establish some similarities and differences in the used methods.