

Dedication

**To the Soul of my Father; my Mother,
Brothers, and Sisters.**

Acknowledgment

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My deepest gratitude owed to friends.

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Abstract

The theory of multiplicity, mps was developed. A complete classification of right Coideal - algebras with a given parameter are obtained but the classification results for positive and negative cases of this parameter are different.

Many of the Coideals are quantum spheres or quotient spaces by quantum subgroups.

A process of orthogonal norm expansion along a subvariety of Co dimension 1 and dimension 2 on a weighted Bergman spaces over the Ball and the bidisk are introduced.

We show various time discrization schemes of abstract conservative evolution equations with askew- adjoint operator.

We show that a pair of two operators is exactly observable for a continuous model.

الخلاصة

تم أظهار نظرية التطبيقات التعددية.

تم الحصول علي التصنيف التام لجبريات - المثاليه المصاحبه اليمني لكل نتائج التصنيف لأجل الحالات الموجبه والسالبه لهذا المميز مختلفه.

كثير من المثاليات المصاحبه هي كرات كميه أو فضاءات قسمه بواسطه زمر جزئيه كميه.

تم أذخال سلسله عمليه متعاقبه من تمديد نظيم متعامد علي التغير الجزئي للبعد المصاحب 1 والبعد 2 علي فضاءات بيرجمان المدحجه فوق الكره والقرص الثنائي.

تم توضيح مخططات مميزة زمن متنوع لمعادلات حركيه محافظه مجردة لها مؤثر مرافق منحرف. تم إيضاح ان زوج من مؤثرين قابل للملاحظه تماما للنموذج المستمر.

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