

FOLIATIONS, C^* -ALGEBRAS AND INDEX THEORY

EXAM QUESTIONS. SET NUMBER 2

Easy Question. Give the general definition of characteristic classes of foliations.

Difficult Question 1. Sketch the proof of independence of transgresses classes of the choice of Bott and riemannian connections.

Difficult Question 2. Explain how Bott's computation of homotopy groups of $GL_n(\mathbb{C})$ implies periodicity in topological K -theory.