

Abstract Submitted
for the March 1990 Meeting of the
American Physical Society
November 16, 1989

Sorting Category
9b or 10e

MAGNETISM IN REDUCED FeCl_3 GRAPHITE INTERCALATION COMPOUNDS. Y.Z. Negm, M.Z. Tahar, A.K. Ibrahim and G.O. Zimmerman, Physics Department, Boston University. -
- Stages 2, 3, 4, 5, and 6 FeCl_3 GIC's were reduced with metallic potassium. The procedure was to insert the potassium and the GIC at opposite ends of a glass tube, in an inert gas atmosphere of about 100 torr. The tube was then heated to 200° for 24 hours. During this process all of the reduced stages exfoliated. It was found that at room temperature the reduced stages 4 and 5 were strongly ferromagnetic, while the others were not. Further characterization and magnetic measurements on these compounds will be reported.

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