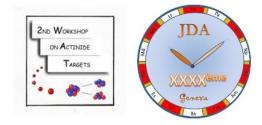
40èmes Journées des Actinides & 2nd Workshop on Actinide Targets



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On the existence of cerium (IV) orthophosphate, 'Ce3(PO4)4'

Monday, 29 March 2010 11:50 (5 minutes)

The present study is aimed to elucidate the existence of the ceric orthophosphate by synthesis and characterization of 'Ce3(PO4)4' and CePO4. The results obtained indicate a mixed valence in both phosphates obtained, corresponding to nonstoichiometric compounds of cerium in an intermediate oxidation state (molar ratios P/Ce of 1.06 to 1.18). Based on the results obtained, the existence of other ceric phosphates synthesized at high temperatures is discussed.

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