Title: Use of muon radiation methods as complementary techniques to pulse radiolysis for nuclear applications.

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Abstract
Results from different investigations, on both fundamental science and nuclear applications of muon irradiation will be given. Some results of microscopic characterization of materials and free radicals, using muon spin spectroscopy, will be presented and discussed. The comparison with radiolysis data would be presented to show the complementary nature of muon science to pulse radiolysis along with potential new commercial applications from such results.