**Improved description of ion stopping power in compounds in MARS code**

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Lifetime of organic materials used in accelerator magnets is limited due to irradiation. Usually such materials are compounds, and difference between measured stopping power of ions in compounds and that predicted according to Bragg’s rule at low energies can be as large as 20%. In order to improve quality of calculated absorbed dose in compounds, the “cores-and-bonds” method developed previously by G. Both *et al.* to address this issue was implemented in MARS code recently. Comparisons between measured and predicted stopping power are given. Production Solenoid for Mu2e experiment is considered as an example.