

5.0 VERSION

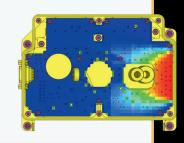
New physics: Hadronic physical processes



- Multi-threading for overlap detection
- Improvement of the invalid shape tool: detection & resolution
- Possibility to only upload & work on a part of a heavy model
- Improvement of the Material database to address all types of analysis (TID/TNID & internal charging)

Ray-Tracing

- Possibility to run and post-process the calculation with multiple environments (TID & TNID)
- Post-processing capability for mapping



Forward & Reverse Monte-Carlo

- Depth curve tool: TID/TNID & incident current
- Tracking of heavy ions, neutrons, protons, electrons, photons

Internal Charging:

- Time-dependent dielectric temperature and conductivity
- Time-dependent charge deposition rate
- Dielectric capacitance at steady-state
- 3D cylindrical mesh for the charge deposition rate





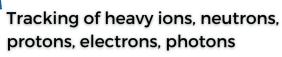
with





New physics: Hadronic physical processes in Forward Monte-Carlo

Radiation Protection related outputs for crewed missions



H*(10) ICRP74; E(AP) ICRP116; E(ISO) ICRP116; H'(0.07,0°) ICRU57; Hp(3) ICRU57; Fluence; Total deposited energy rate; Total absorbed dose rate; Dose equivalent and many more...



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