Electronic Supplementary Material (ESI) for Journal of Analytical Atomic Spectrometry.

Electronic Supplementary Information 3 - Correction for neutron self-shielding and gamma-ray self-absorption in prompt-gamma activation analysis for large and irregularly-shaped samples

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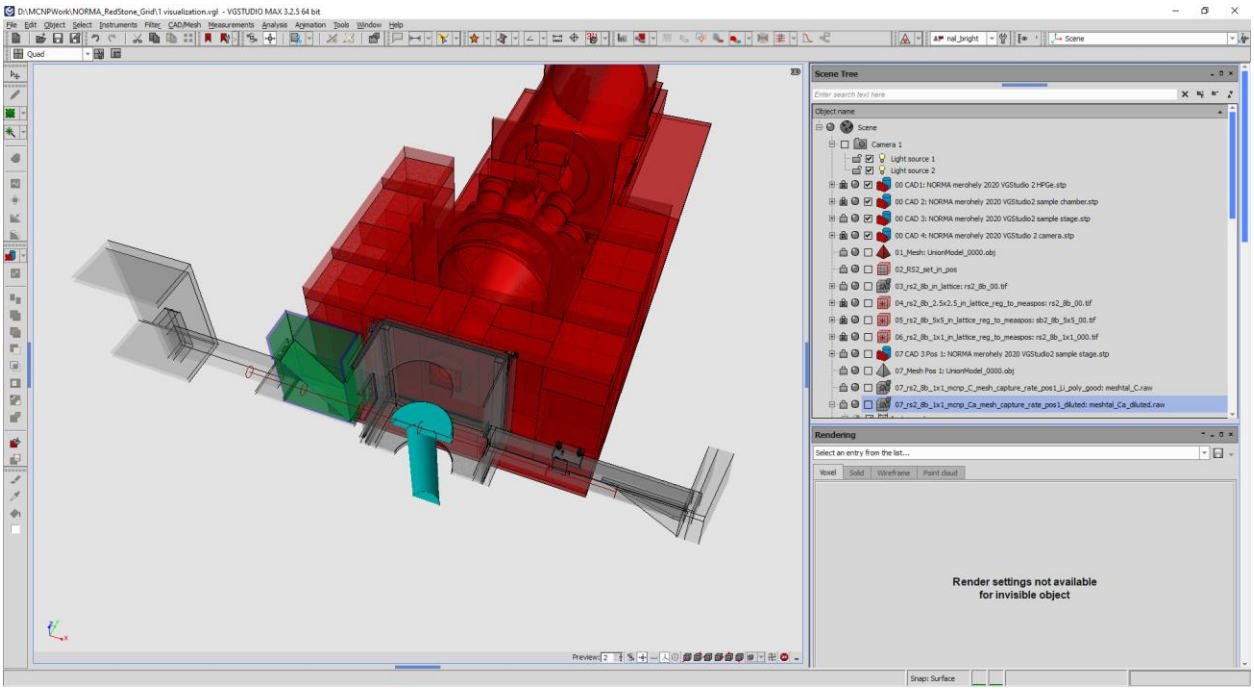


Fig 1. The CAD model of the Budapest NIPS-NORMA facility imported to VG Studio MAX 3.2

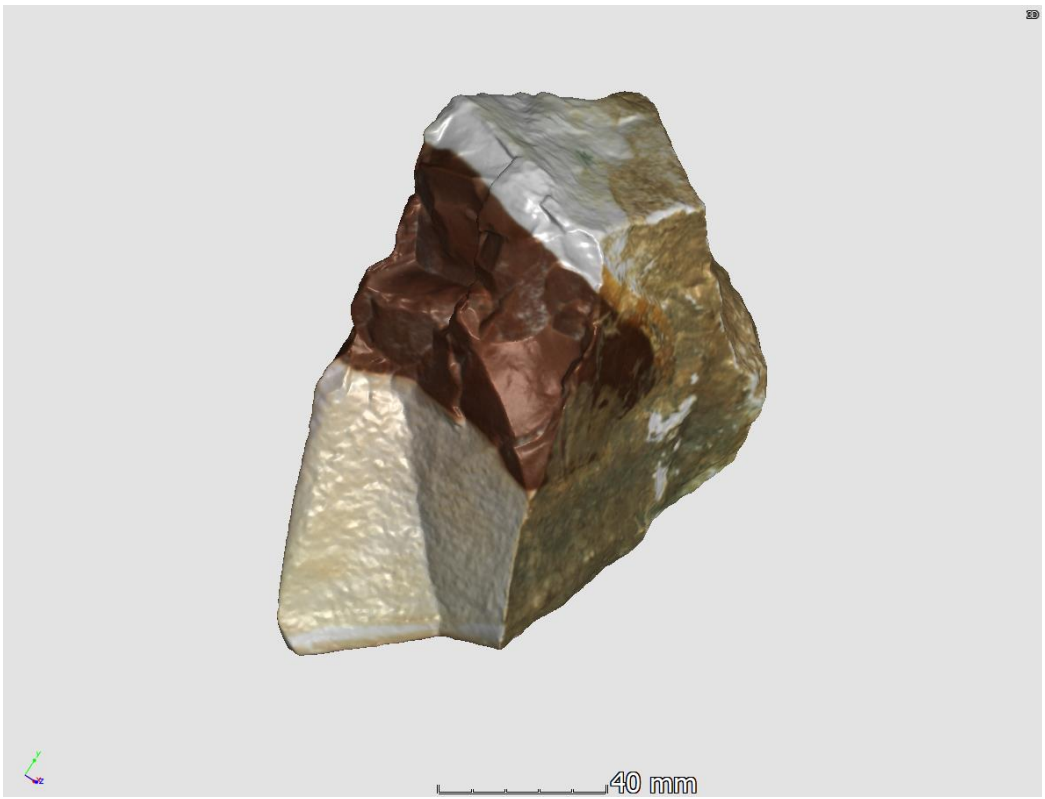


Fig 2. The photorealistic 3D model of the stone object

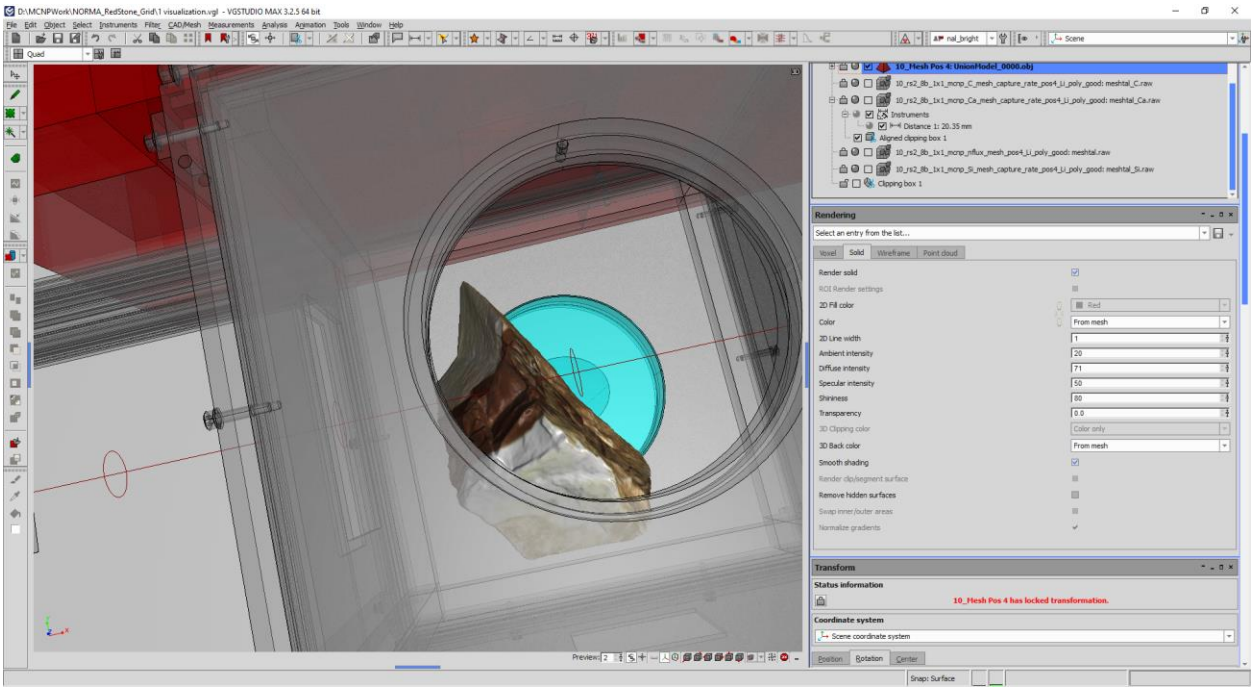


Fig 3. The virtual 3D model of the experiment including the setup and the sample placement

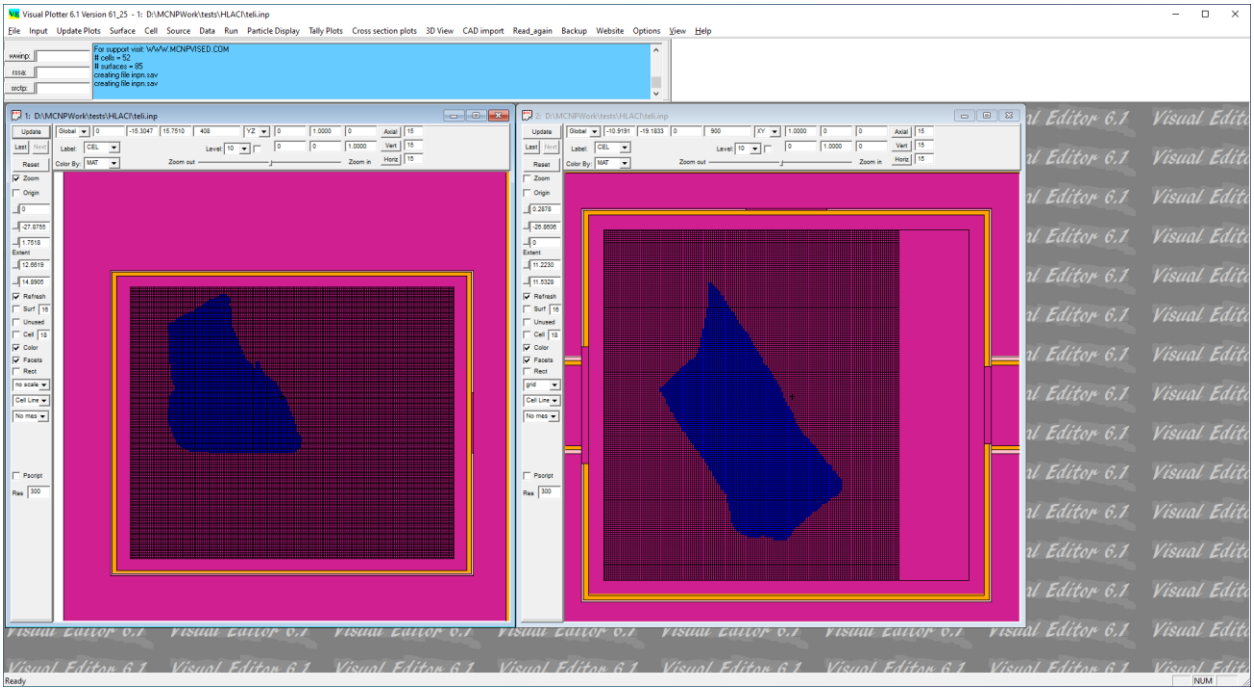


Fig 4. The model of the object in MCNP's Visual Editor

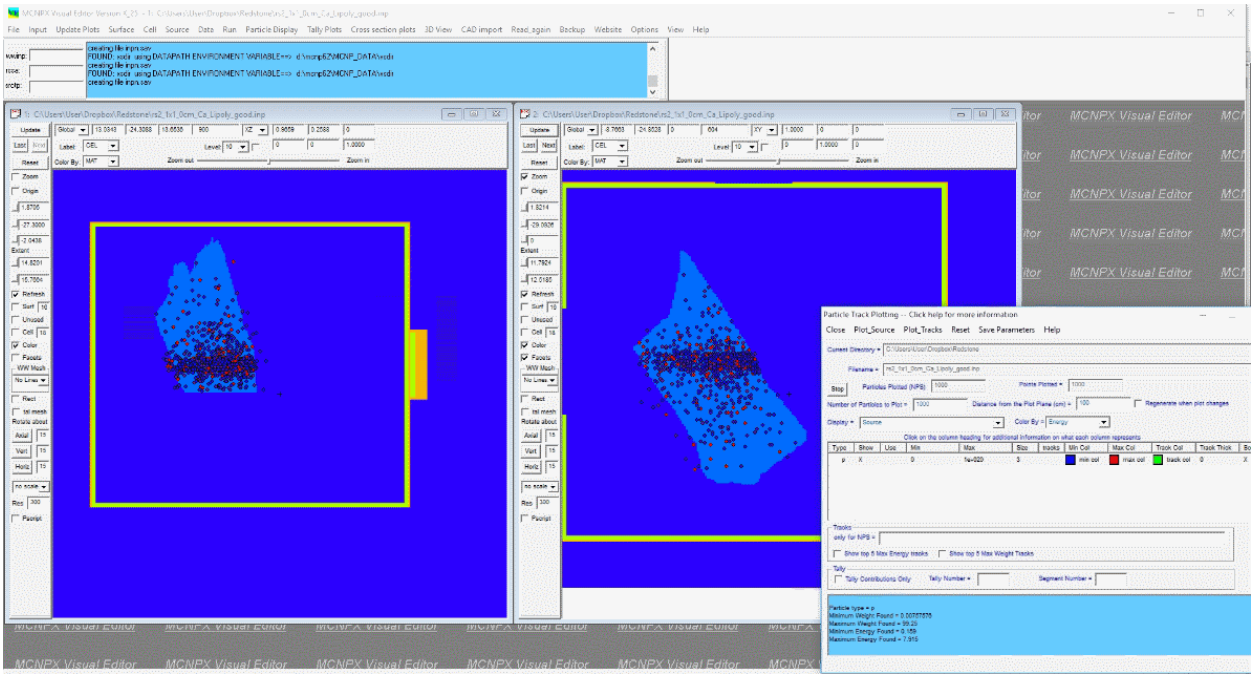


Fig 5. The generation of prompt-gamma photons in MCNP's Visual Editor

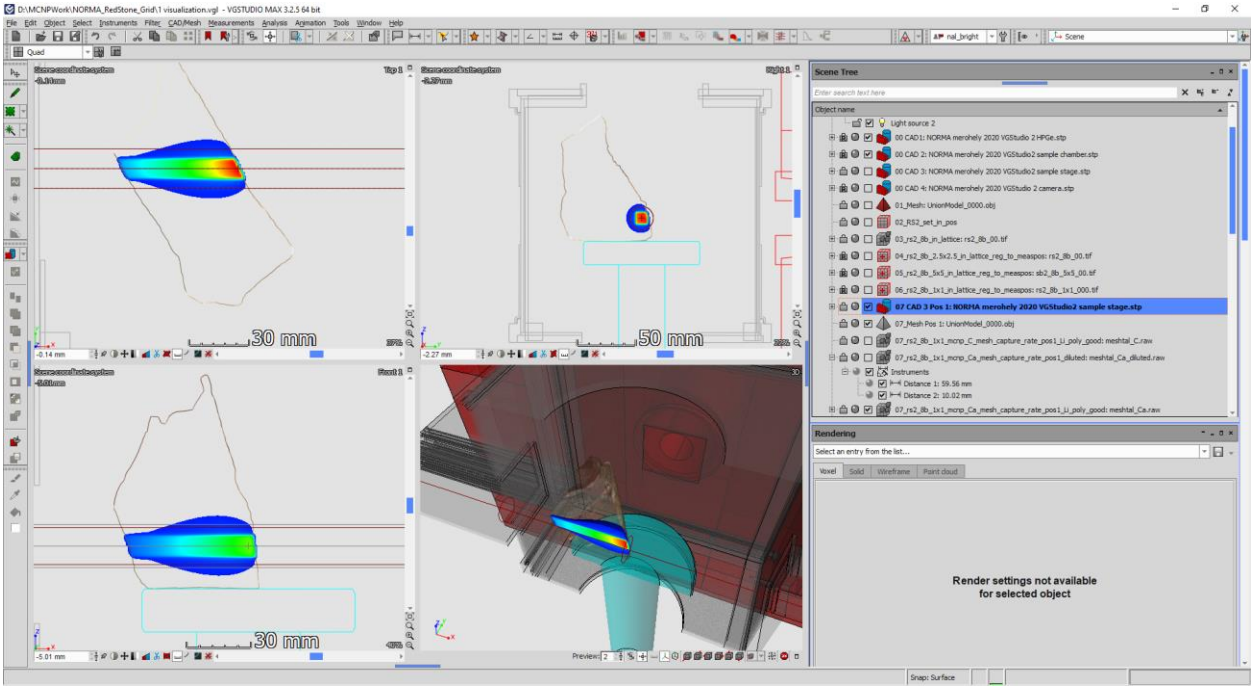


Fig 6. The neutron field at Pos 1 with real density

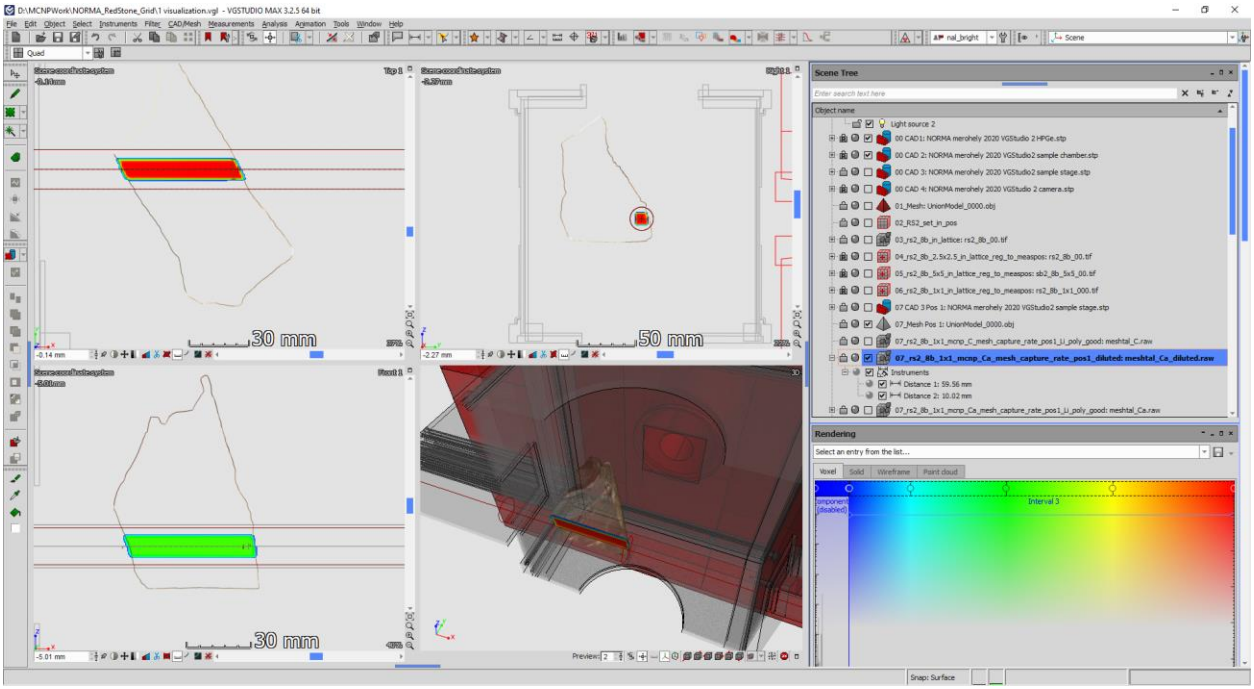


Fig 7. The neutron field at Pos 1 with diluted density

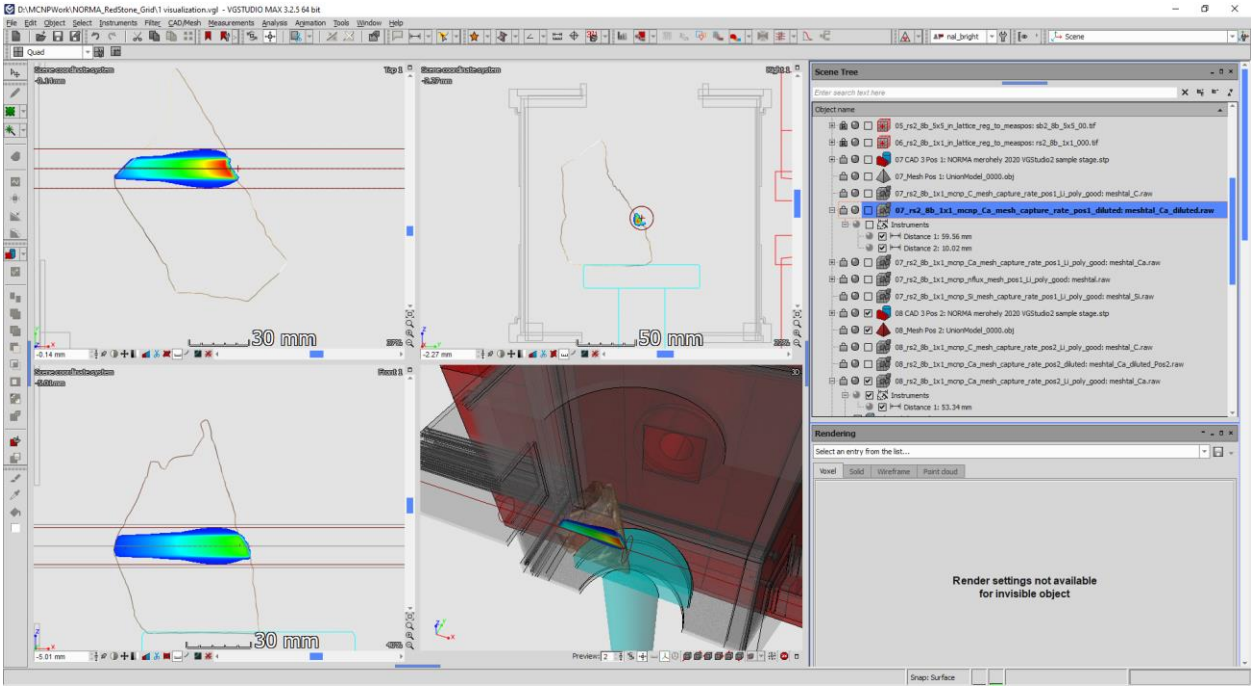


Fig 8. The neutron field at Pos 2 with real density

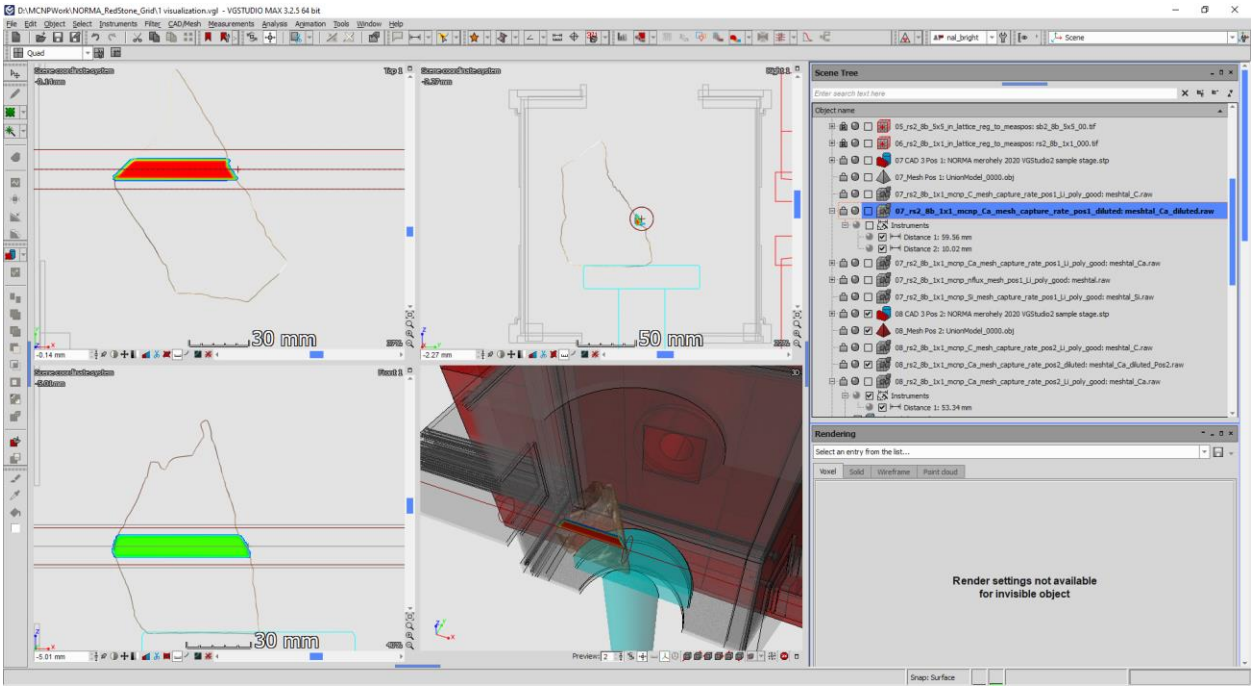


Fig 9. The neutron field at Pos 2 with diluted density

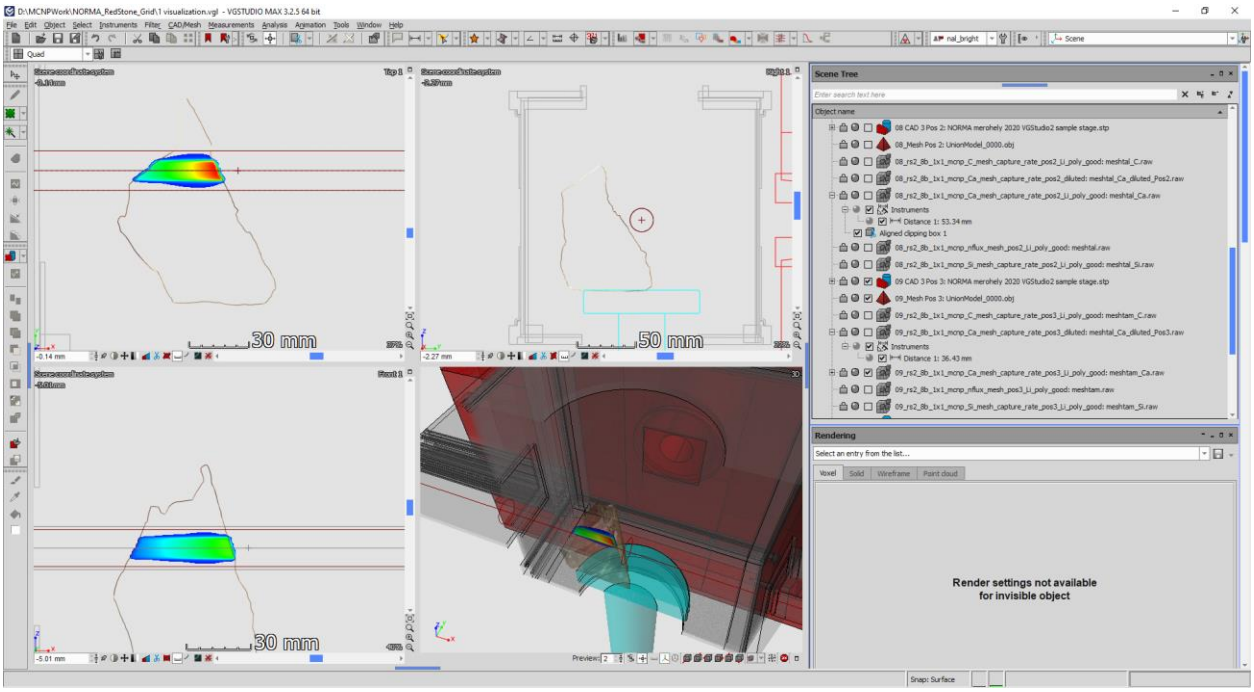


Fig 10. The neutron field at Pos 3 with real density

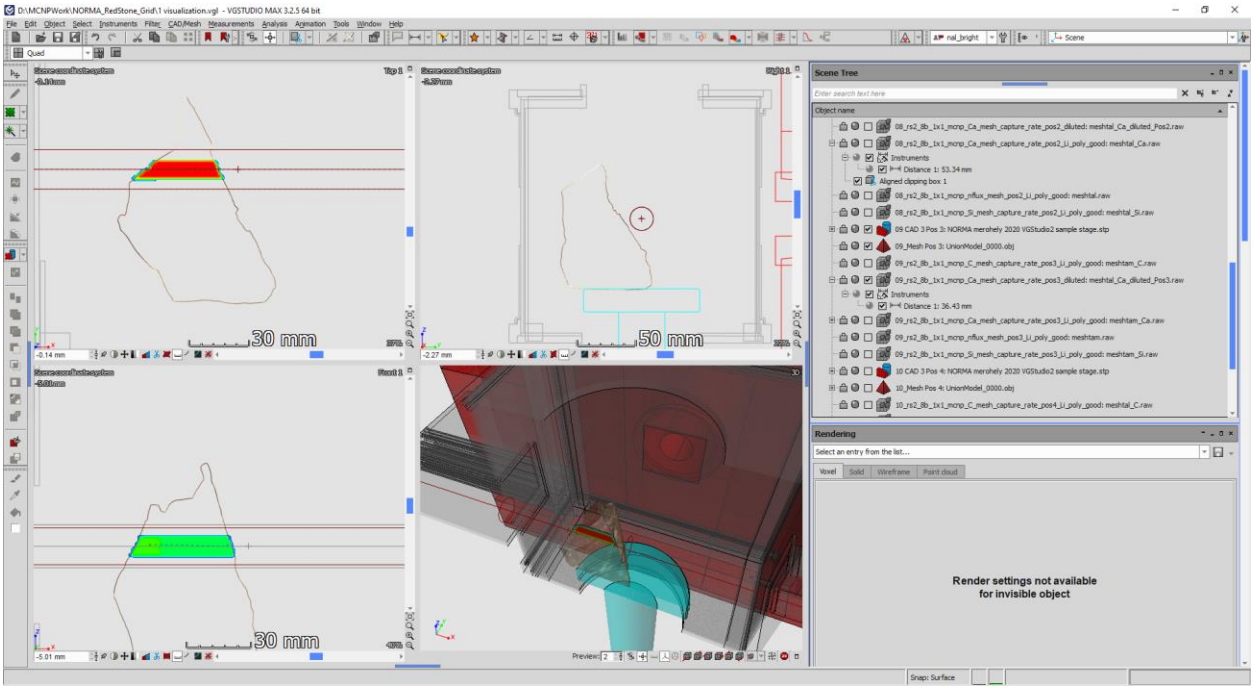


Fig 11. The neutron field at Pos 3 with diluted density

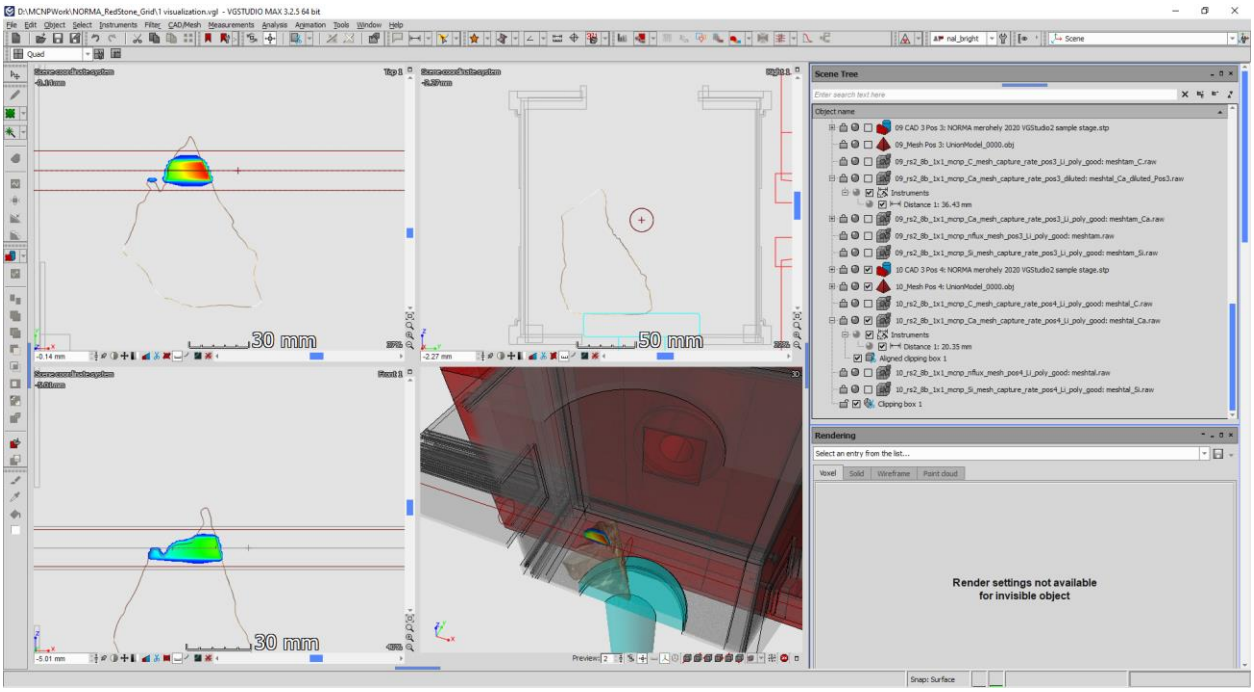


Fig 12. The neutron field at Pos 4 with real density

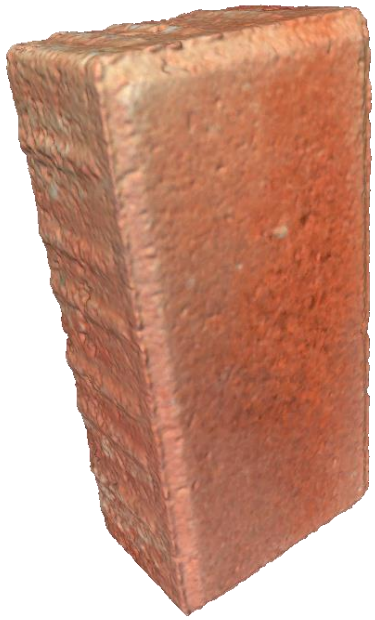
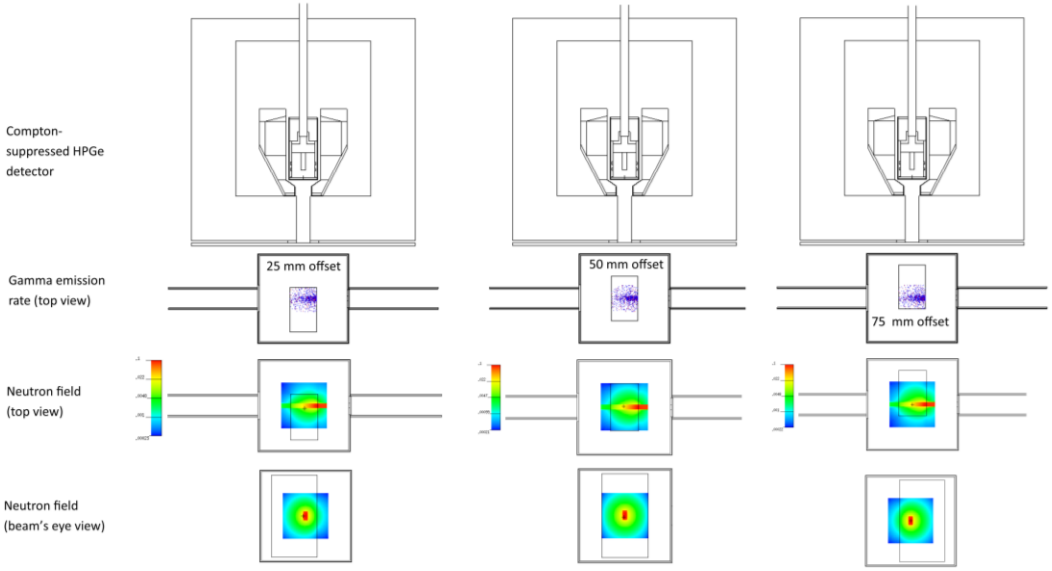


Fig 13. The photorealistic 3D model of the pavement stone object



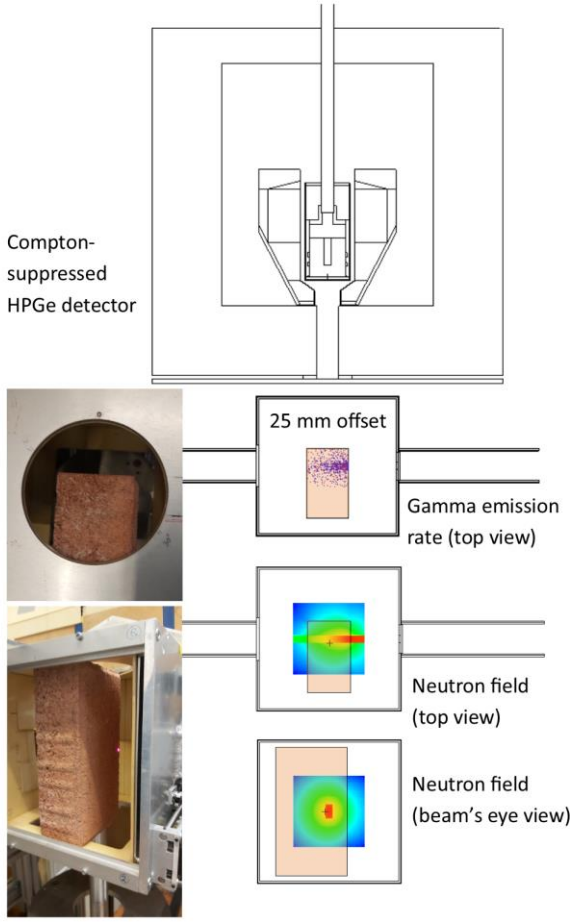


Fig 14. Neutron field plots for the pavement stone sample