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Hydrodynamic Nucleosynthesis of Dual Core Flash Merger

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ABSTRACT
Hydrodynamic nucleosynthesis of dual core flash ...

Key words: turbulence – mixing – nuclear burning – stellar evolution

1 INTRODUCTION

This is continuation of (Mocák et al. 2010, 2011)

REFERENCES

Mocák M., Campbell S. W., Müller E., Kifonidis K., 2010, A&A, 520, A114
Mocák M., Siess L., Müller E., 2011, A&A, 533, A53

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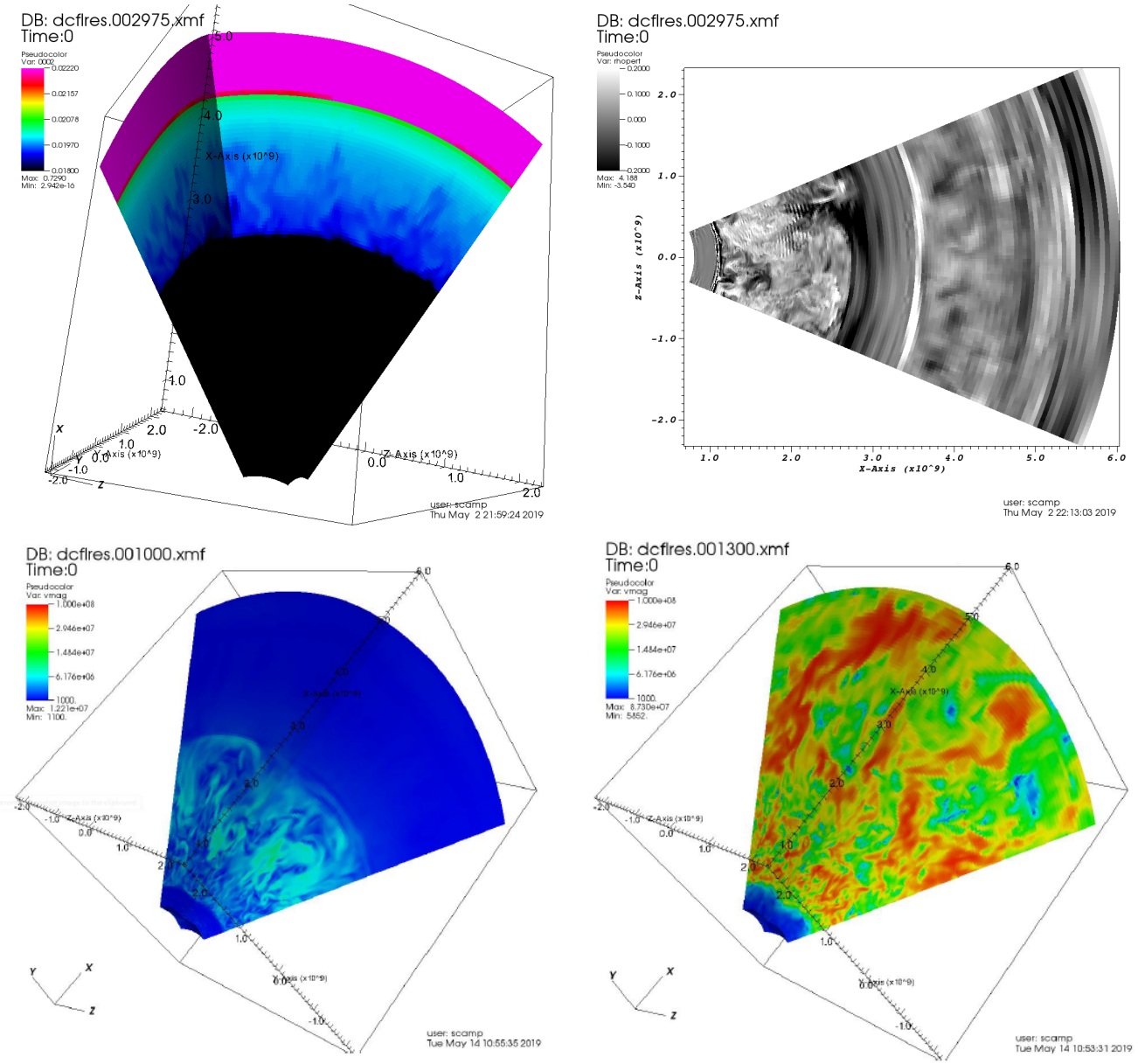

Figure 1. Visualization of dual core flash (192x96x96). Top-Left: H-rich layers. Top-Right: Slice throught density fluctuations in the 3D model. Bottom: Velocities in the 3D model before the merger (Left), and after the merger (Right).

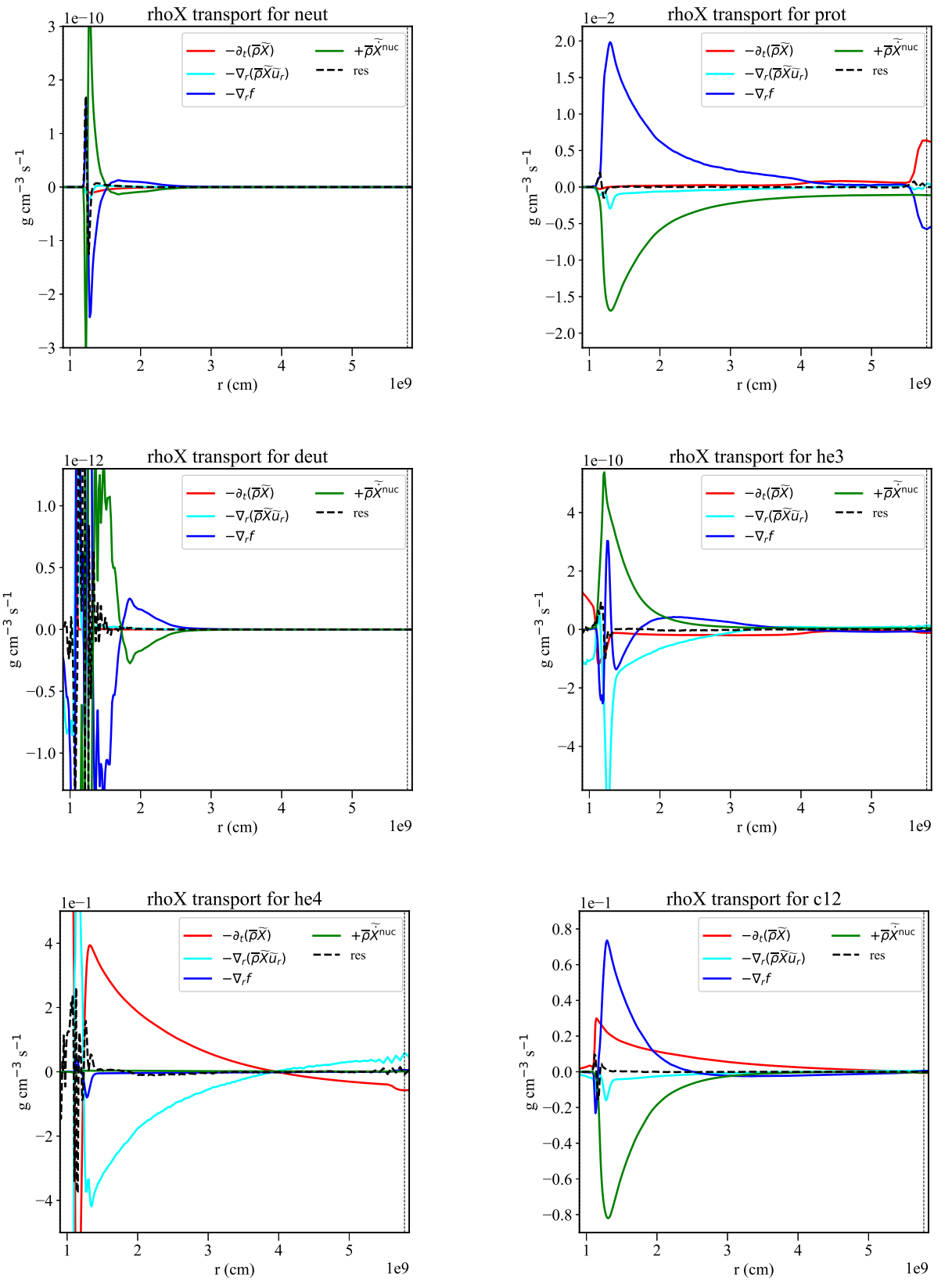

Figure 2. Transport equations for: Left-Top: Neutrons Right-Top: H^1 Left-Middle: H^2 Right-Middle: He^3 Left-Down: He^4 Right-Down: C^{12}

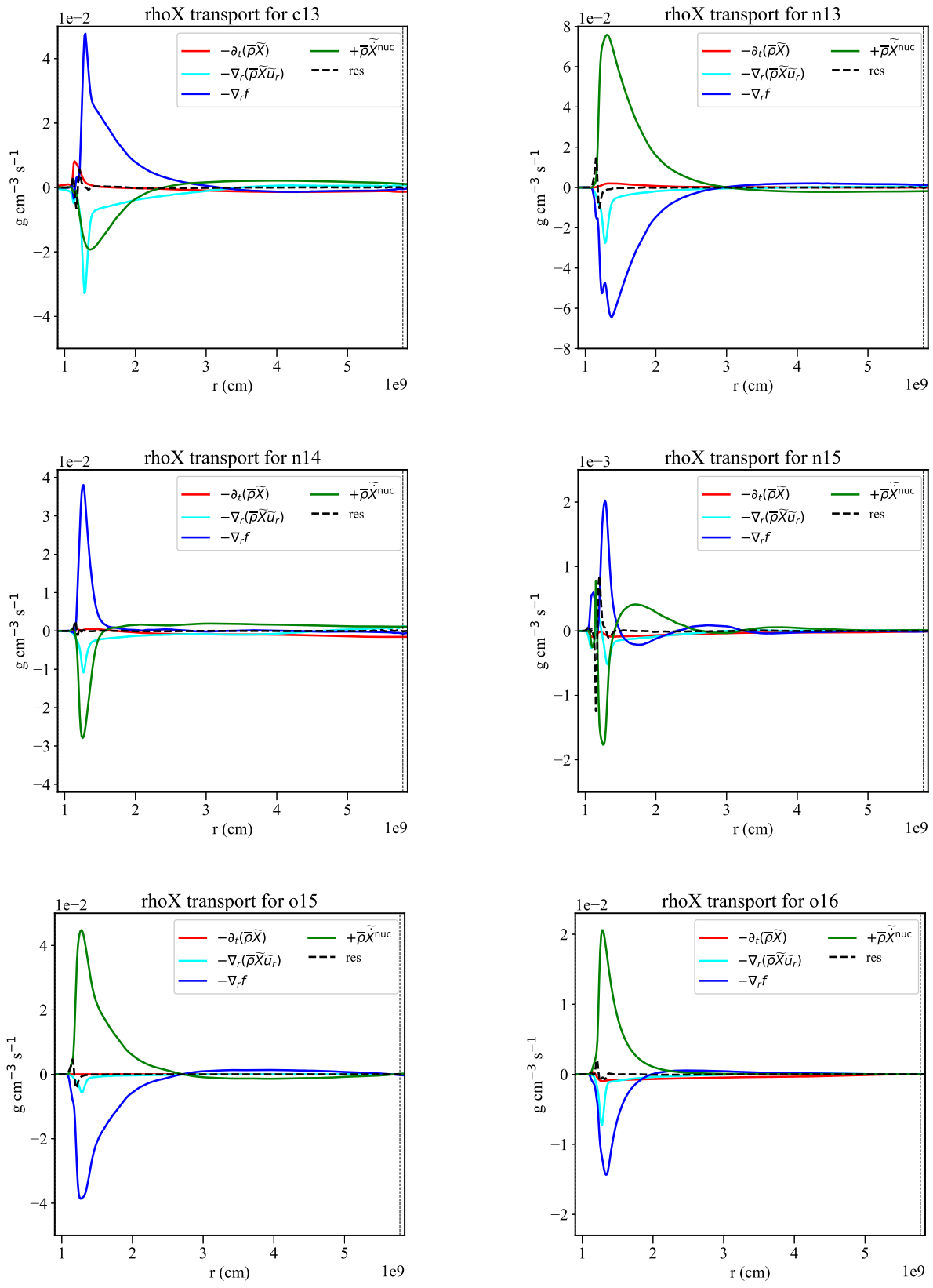

Figure 3. Transport equations for: Left-Top: C^{13} Right-Top: N^{13} Left-Middle: N^{14} Right-Middle: N^{15} Left-Down: O^{15} Right-Down: O^{16}

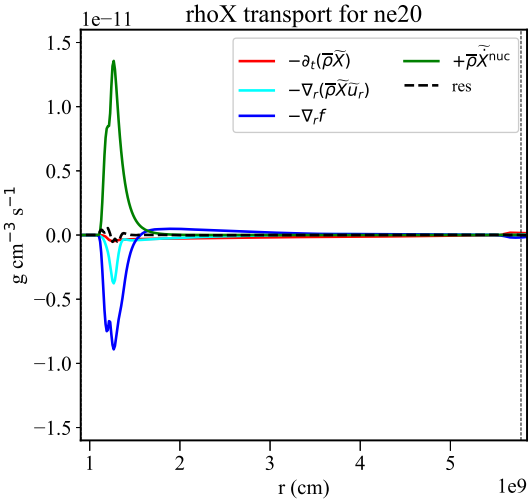

Figure 4. Transport equations for: Right-Down: Ne^{20}