

Virtual Reality: potential for scientific uses in astrophysics ?

The Experiment:

1 MUSE datacube

+

1 Master student

+

1 HTC Vive

+

3 months



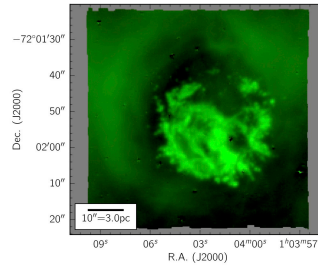
E0102-VR

An experimental Virtual Reality application for observational astrophysics

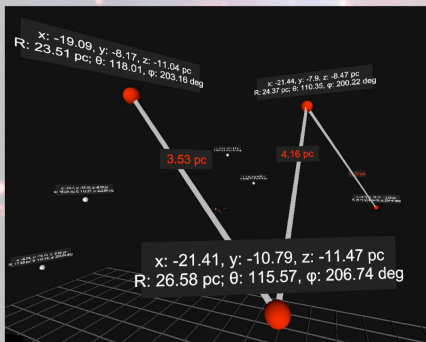
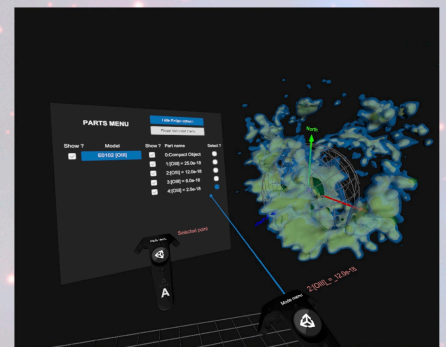
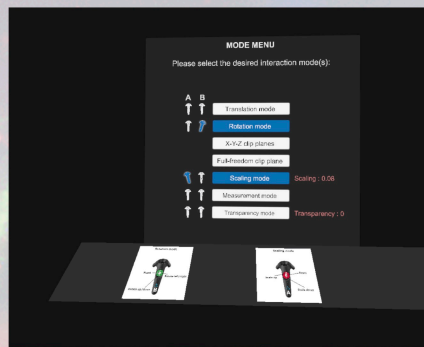
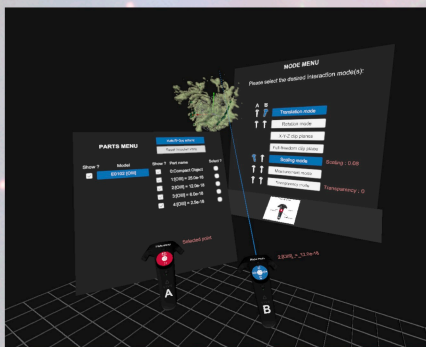
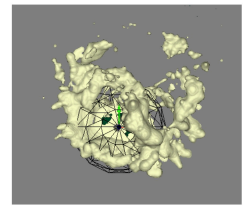
Enrico Baracaglia⁽¹⁾ & Frédéric P.A. Vogt⁽²⁾

(1) ISAE-SUPAERO, France; (2) ESO, Chile.

3D structure of the optical ejecta in SNR 1E 0102.2-7219



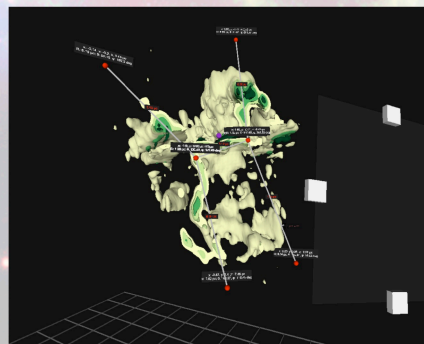
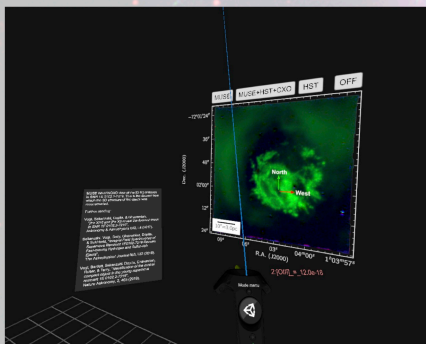
Python (mayavi)



Scan me



to watch a demo video



Get the app (for free): <https://fpavogt.github.io/E0102-VR>



For more info: Baracaglia & Vogt, "Characterizing the 3D structure of the optical ejecta in SNR 1E 0102.2-7219 using Virtual Reality", AJ, under review.

and
or



Talk to me!

* Vogt, Seitzzahl, Dopita, & Ghavamian, "Fe XIV and Fe XII reveal the forward shock in SNR 1E 0102.2-7219", 2017, A&A, 602, L4.
Vogt, Seitzzahl, Dopita & Ruiter, "Linking the X3D Pathway to integral field spectrographs: YSNR 1E 0102.2-7219 in the SMC as a case study", 2017, PASP, 129, 975.
Vogt, Owen, Verdes-Montenegro & Borthakur, "Advanced Data Visualization in Astrophysics: The X3D Pathway", 2016, A&A, 818, 115.