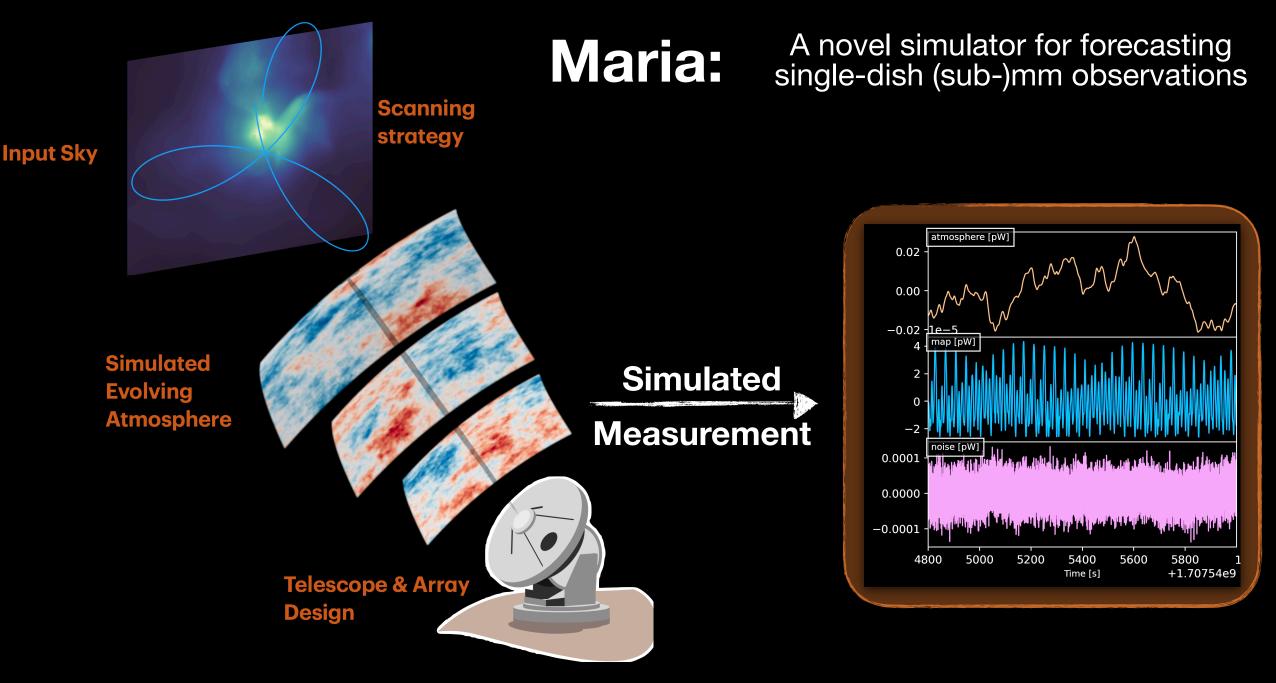


# Maria Goes NIFTy

## Simulation, Gaussian Process-Based Reconstruction and Denoising of (Sub-)Millimetre Single-Dish Telescope Data

J. Würzinger, J. van Marrewijk, T.W. Morris, R. Fuchs, T. Mroczkowski, L. Heinrich





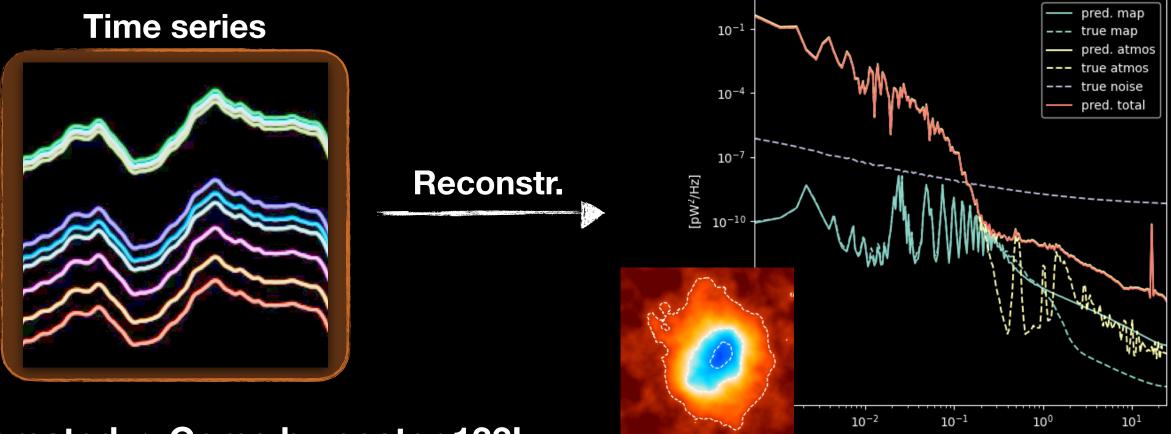
van Marrewijk et al. 2024 [arXiv:2402.10731], https://thomaswmorris.com/maria/

#### **One Problem:**

#### **The Atmosphere**

### Disentangle atmosphere, map & noise

Reconstruction over 10 orders of magnitude in power & 3 in frequency



Powerspectrum

Frequency [Hz]

#### Interested $\rightarrow$ <u>Come by poster 133!</u>