

Are we ready to characterise exoplanet atmospheres with the James Webb Space Telescope observations?

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The James Webb Space Telescope (JWST) will open a new area in the domain of exoplanet atmosphere characterisation and will require accurate models to interpret the observations. In this context, we propose a protocol to compare various atmospheric codes, to identify and discuss the significant differences in the results and to help the codes evolve to become as consistent as possible. We applied this protocol on 3 forward models and one retrieval. We updated them to account for the major differences and we are now able to identify the remaining differences observable with the JWST.

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