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## On the disk-origin of atmospheres of the Earth and exo-Earths

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Atmospheres of extrasolar terrestrial planets will be identified by future large telescopes. It is the right time to discuss the diversity of terrestrial-planet atmospheres. Gas from protoplanetary disks is one of the possible atmospheric sources. With our numerical results for the accretion of disk gas onto protoplanets, we constrain the possibility of the disk-origin of atmospheres of the Earth and exo-Earths.

Keywords: exoplanet, Earth, super-Earth, atmosphere, origin