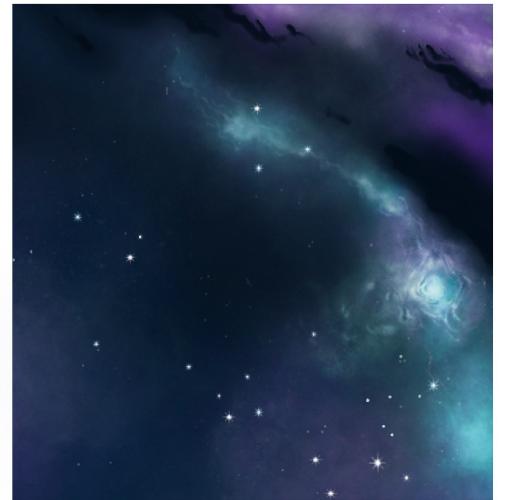


Marta Paula Tychoniec - portfolio

graphic design - illustration - book cover

Illustration - digital



The background is part of the visual identity of the space podcast. Illustration elements are used in social media, the whole background for portraits of podcast guests. The color inspiration and elements of the drawing are inspired by the latest NASA photos, from the latest telescope - *JWST*.

Marta Paula Tychoniec – portfolio

graphic design - illustration - book cover

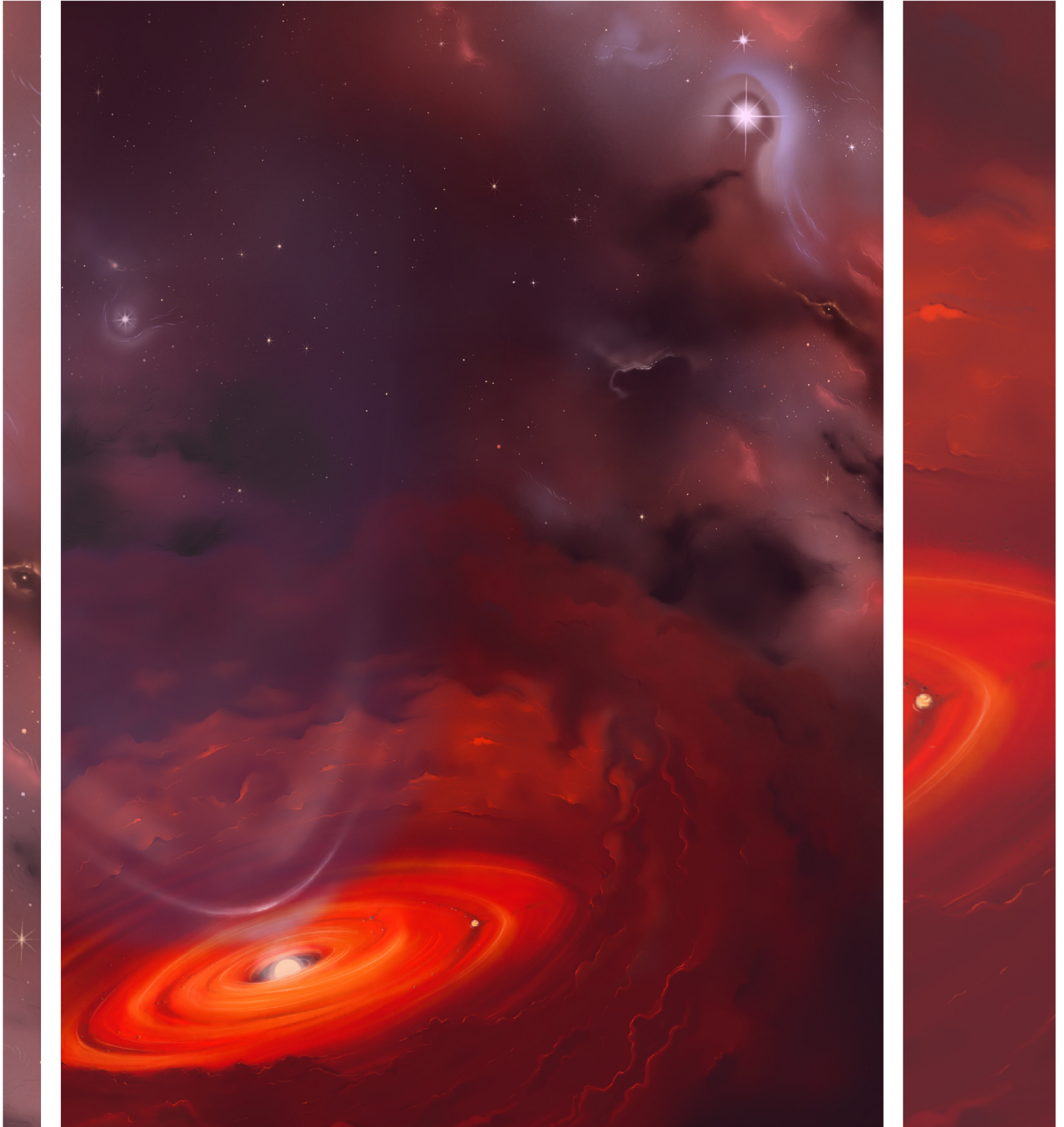


Illustration created for the competition for the cover of the publication "*Astronomy and Astrophysic*". The project was created in cooperation with a doctor of astronomy who studies the first stages of the formation of stars and planets.

Marta Paula Tychoniec – portfolio

graphic design - illustration - book cover

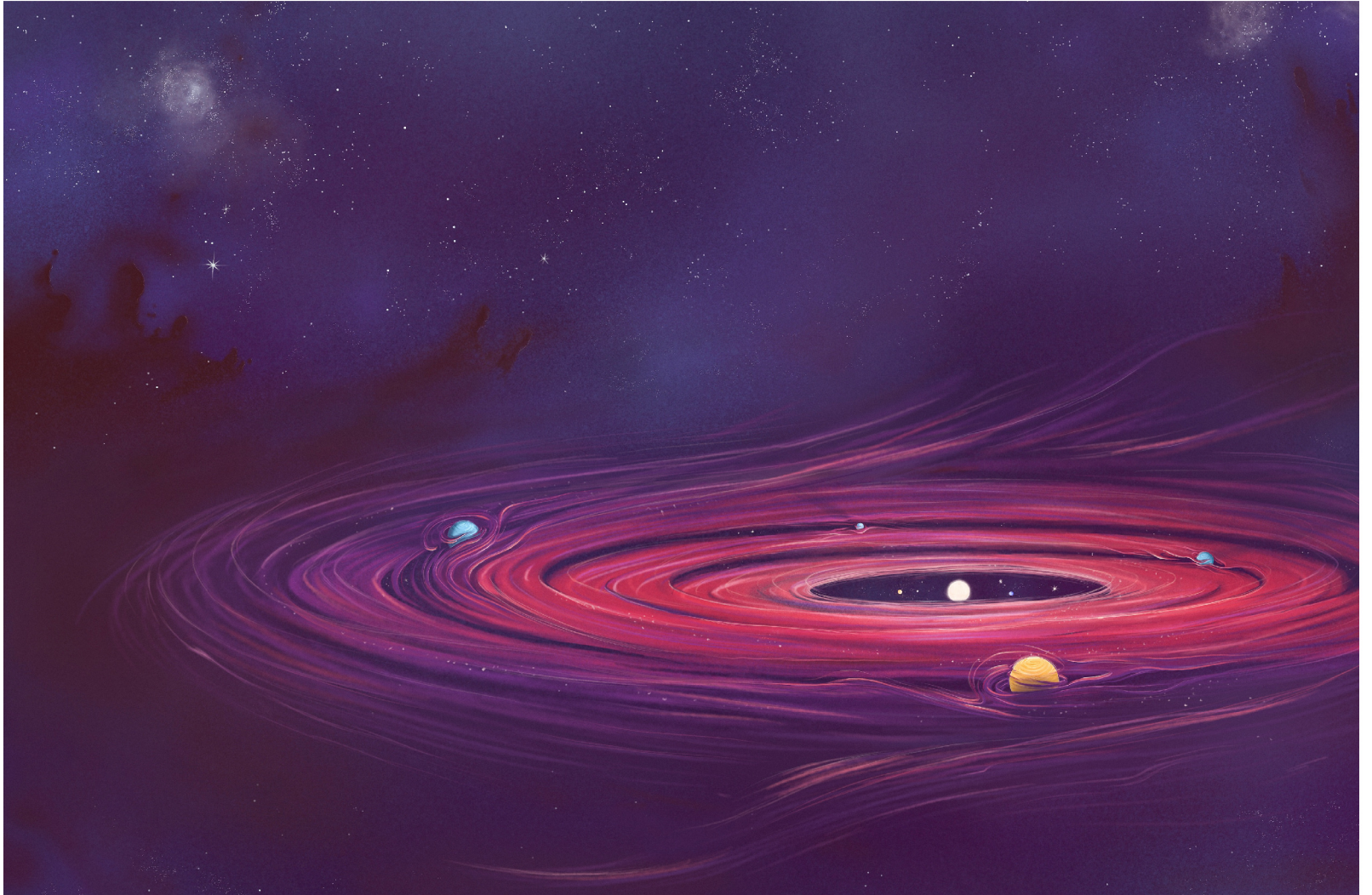
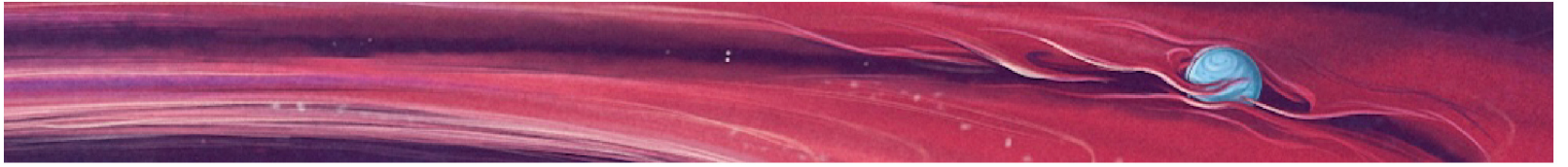
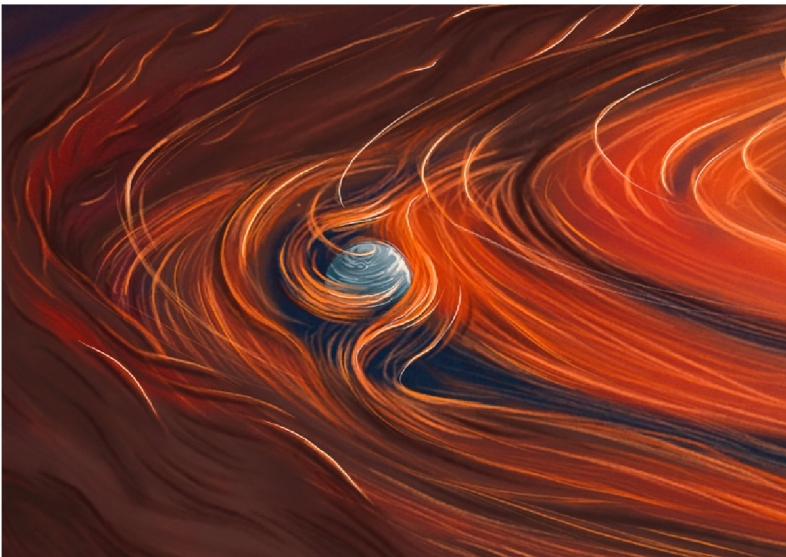
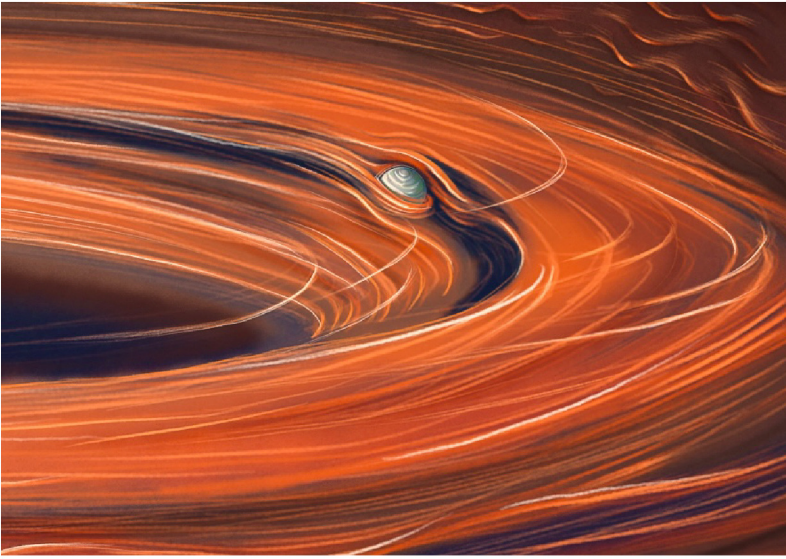


Illustration created for the cover of Lisa Wölfer's PhD thesis *Ingredients of the planet-formation puzzle* – Gas substructures and kinematics in transition discs.

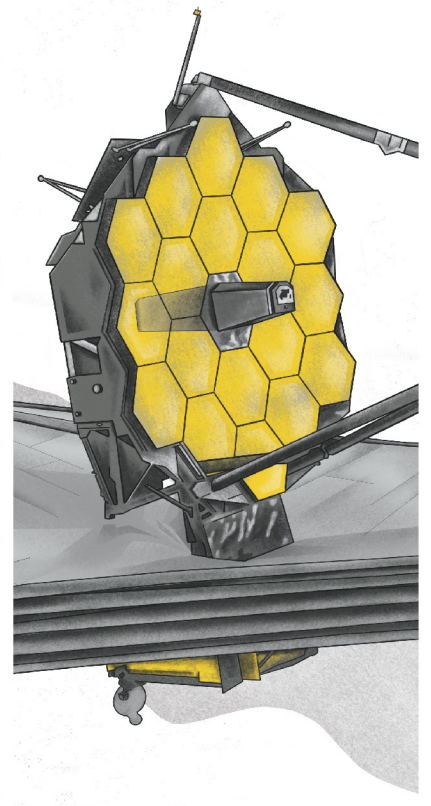
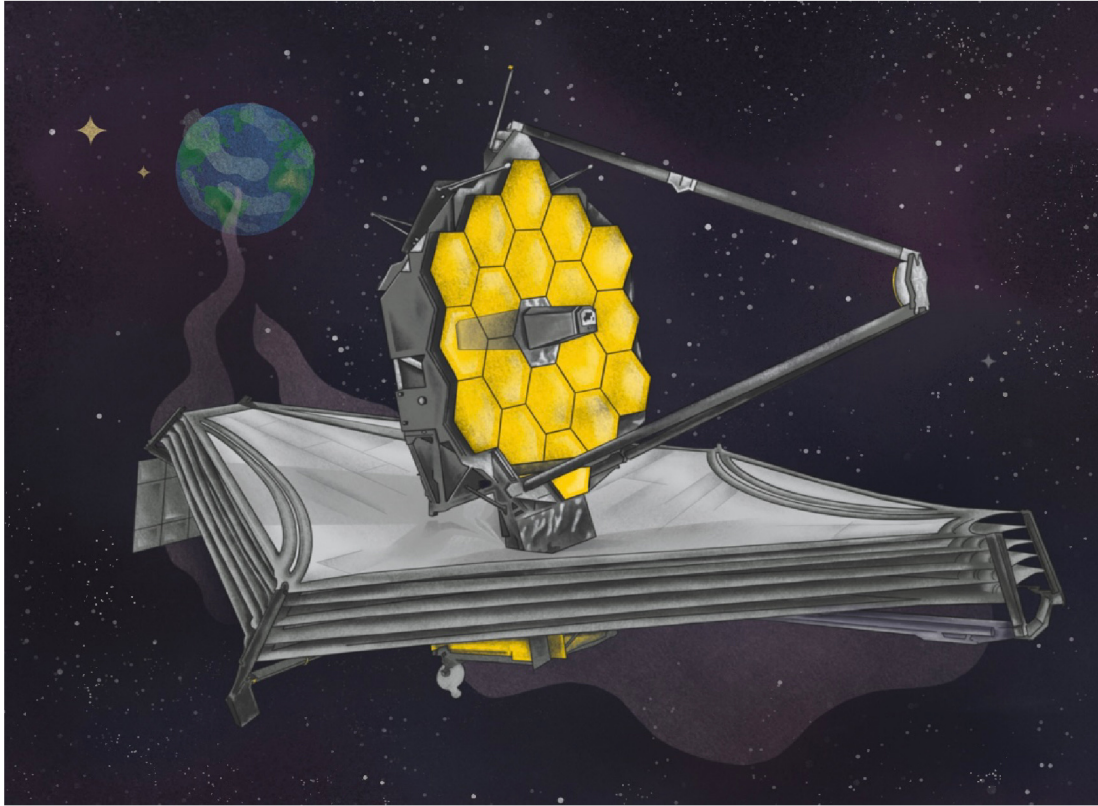
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graphic design - illustration - book cover



Illustrations presents behavior of planetary disk dust and planets forming in it.

Illustration of James Webb's telescope created for an article in *Urania* bimonthly. (Volume XCII, number 6/2021)



Book illustration – Astrochemistry (ink)

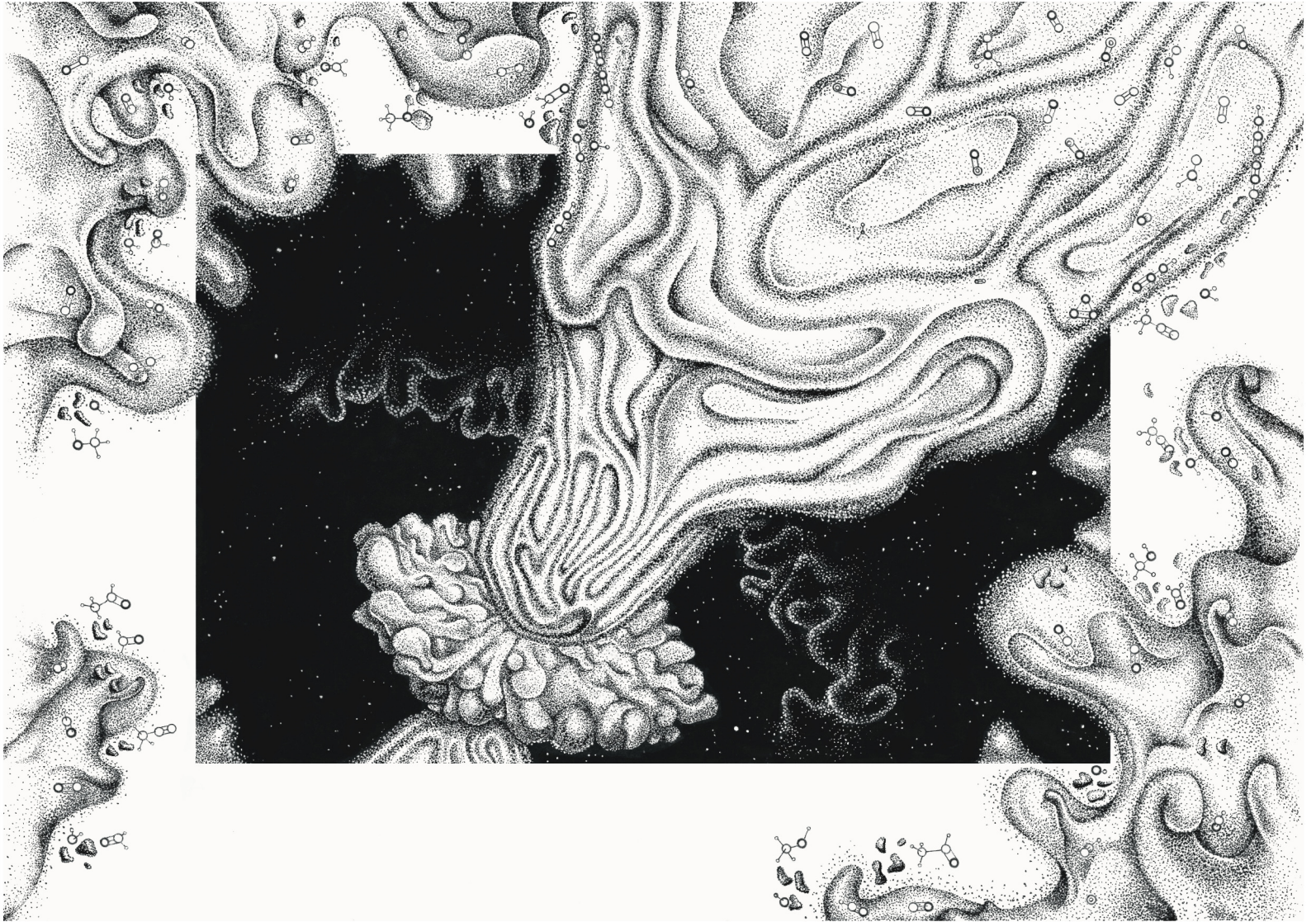
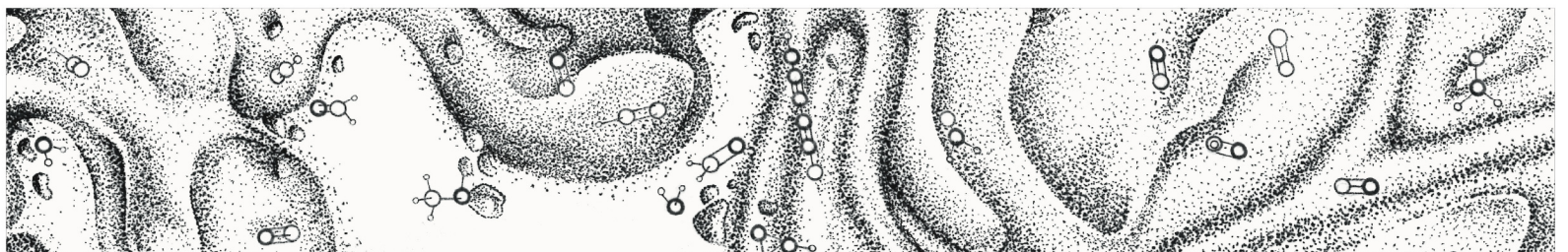
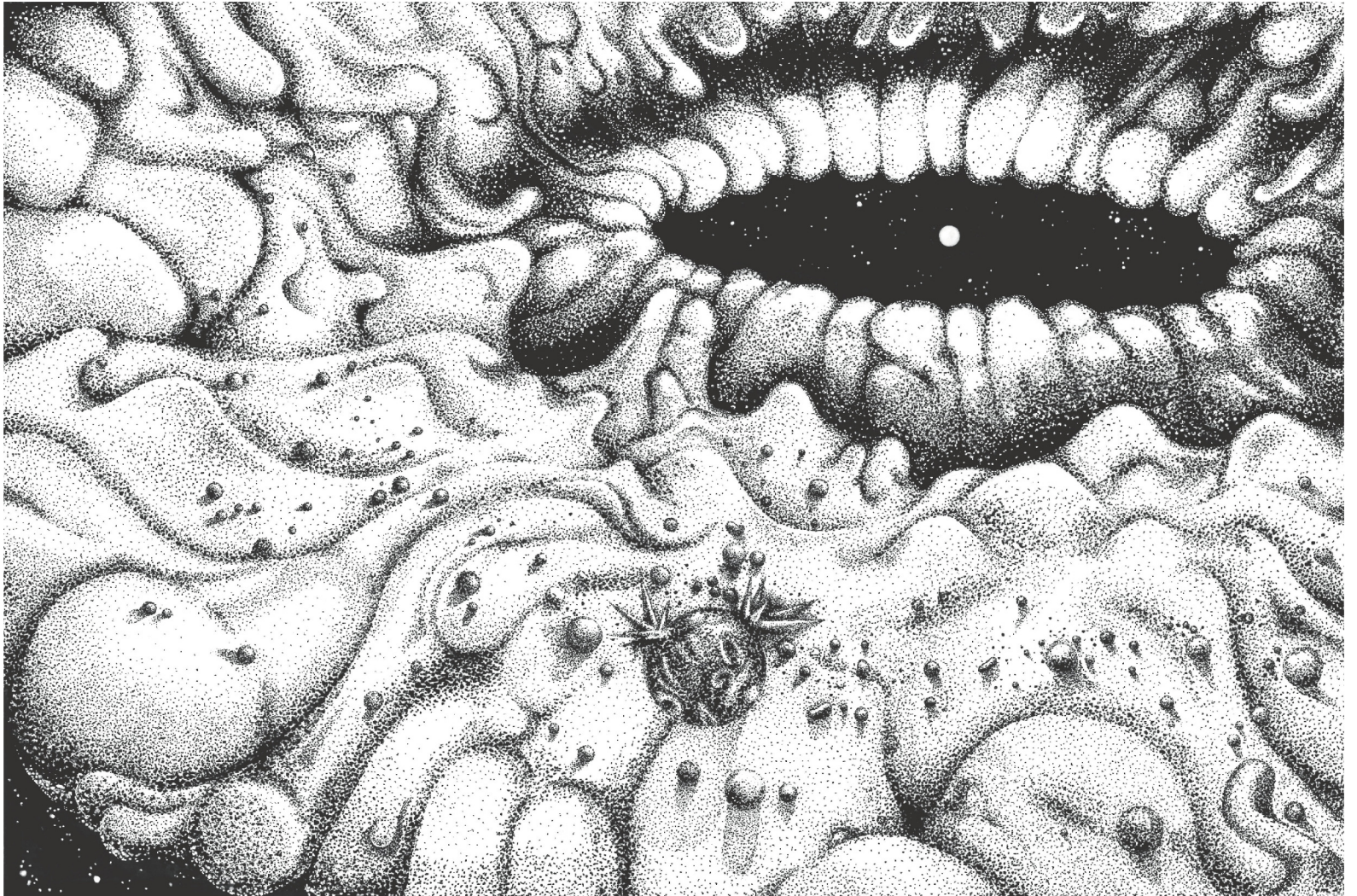


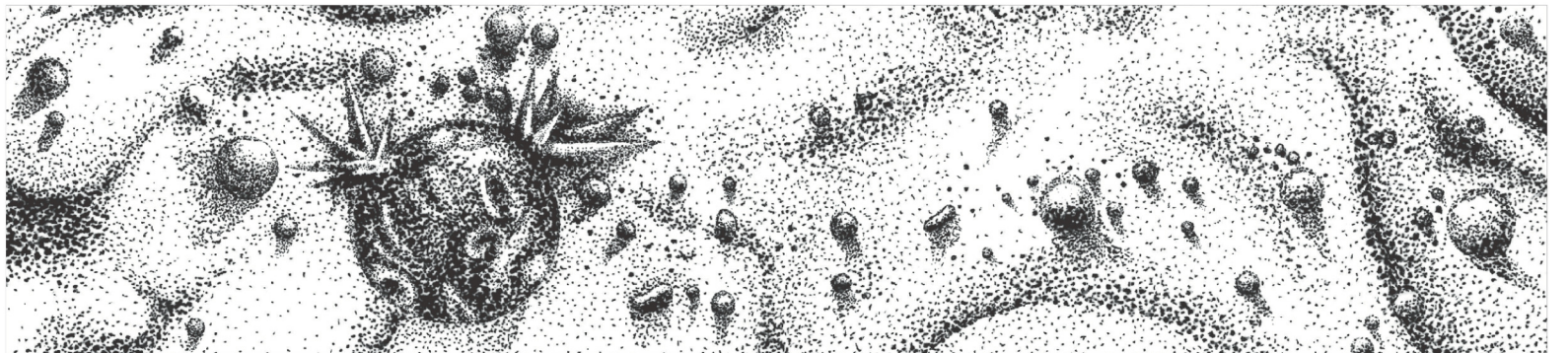
Illustration of cosmic molecules. To illustrate a particle as tiny as the molecule required bringing the observer closer to the source. Jet, disk, gaseous envelope, and subsequent layers of the cloud are coming out of space into the white frame give the impression of being closer, even inside the young stellar system in the making.



Book illustration – Planet Formation (ink)



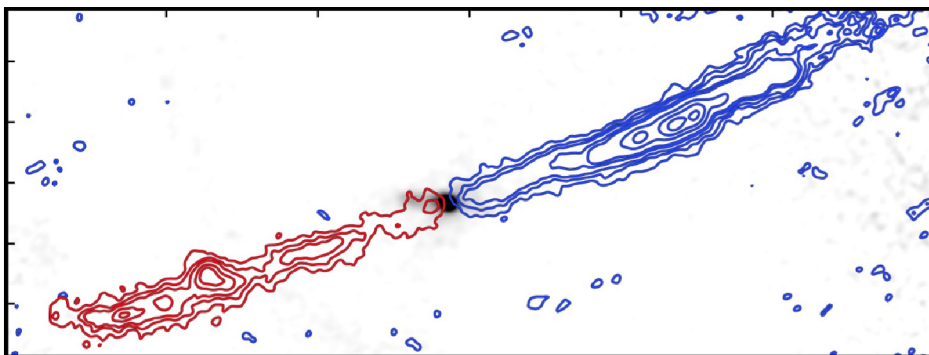
The illustration presents the *planet formation* process where dust and gas are fueling the planetary cores. As the molecular cloud collapses, its initial rotation creates a flattened disk swirling around a newborn star. The disk, full of tiny dust grains and larger pebbles, is where planets start to form.



Book illustration – Protostellar Jet (ink)



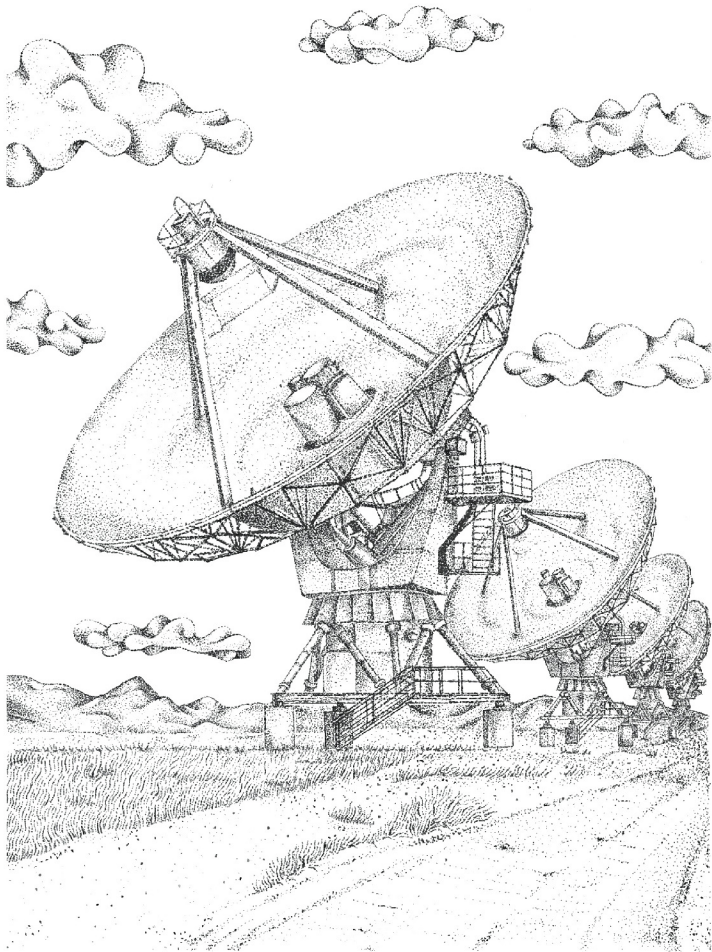
Contour maps are useful in showing astronomical data, such as the brightness of carbon monoxide in this jet. Such contours were an inspiration for my artistic impression of jets. Colours represent the movement of the gas: due to the Doppler effect gas flying away from us is seen as red- shifted and the jet pointed in our direction is blueshifted. The artwork illustrates the 3D nature of the jet with one part escaping the frame on the top and another hiding behind the frame at the bottom



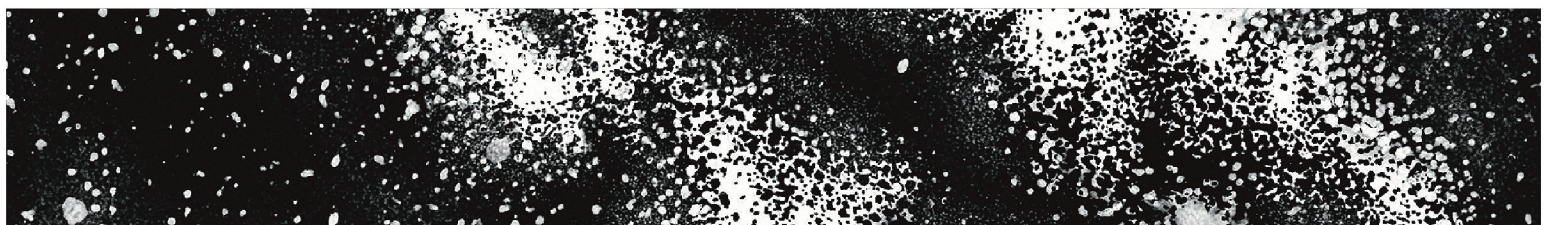
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Book illustration - VLA and ALMA (ink)



VLA (Very Large Array) and ALMA (Atacama Large Millimeter/Submillimeter Array) telescopes



Marta Paula Tychoniec

graphic design - illustration - book cover

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