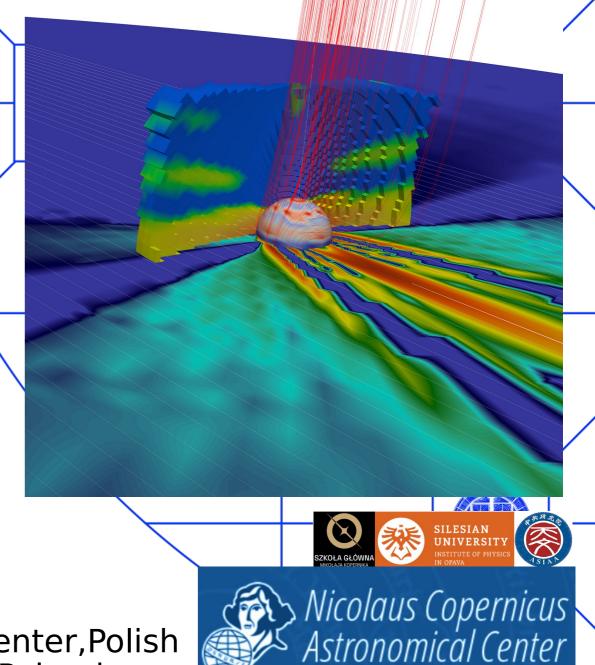


## Radio emission from auroras on planets around pulsars

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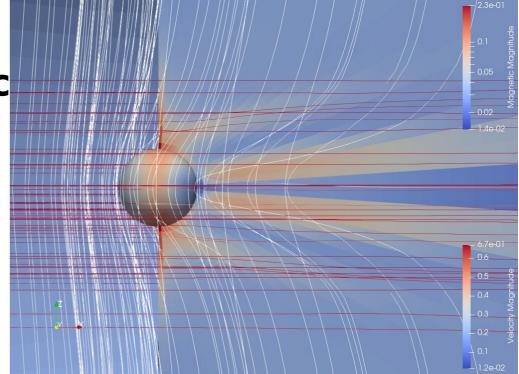
of the Polish Academy of Sciences





 Since the radio emission from an aurora is proportional to the strength of the magnetic field, planets around pulsars are the best candidates for the detection of auroral radio emission from distant exoplanets.

 We performed the first MHD simulations of magnetospheric pulsar-planet interaction and estimated the radio emission reaching us.

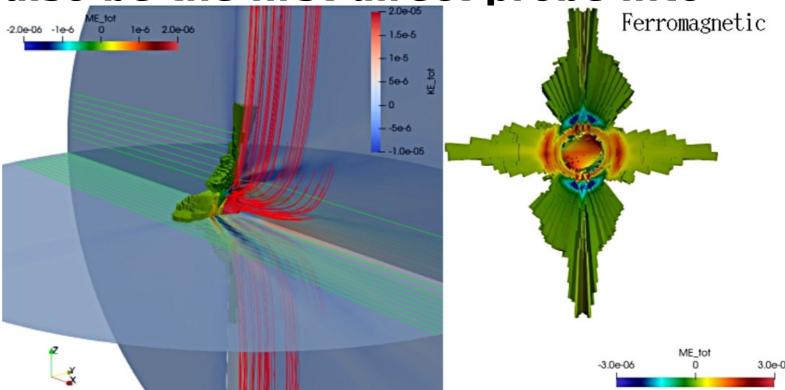




## Radio emission from auroras

We found that the radio emission from aurora on pulsar planets could be observable with the current instruments, and provide parameters for such a detection. It would also be the first direct probe into

the pulsar wind.







**Art was faster than science** in this case: ours are the first computations (2023), and this airbrush **painting is from 2000**! Check the poster for more details, it is a well informed painting!