Fly's Eye Lens Antennas

for XG sensing and communications at 180GHz/300GHz

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In collaboration with Prof. Earl McCune, we envisioned a communications system based on Fly's eye based base station exploiting >100GHz carries combined with Fly's eye antenna arrays as a solution that can provide 200 times more data rates by using a base station made. A collaboration with the company IMST GmbH was established consolidated by a co-financing a PhD between this ERC and IMST. From IMST's side, the PhD was financed in part by the Germany Ministry of Education and Research (BMBF) in the frame of the project Hypatia, in close collaboration with Fraunhofer Institute for Applied Solid State Physics (IAF) and further academic and industrial partners.

If you are interested in this topic, you can find detailed information in the PhD thesis of Marta Arias:

Sensing Group

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