

Concept for High Average Power Ti:Sa Pulse Compressors

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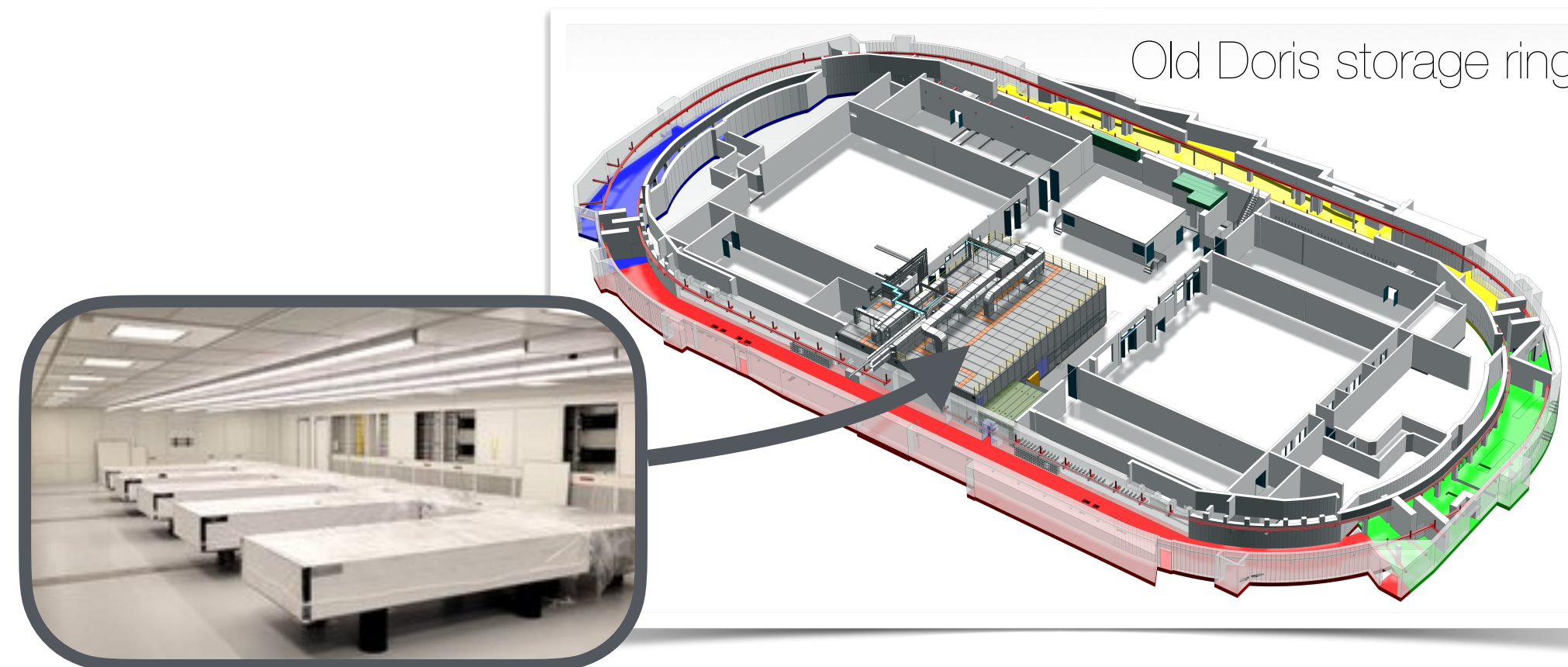
Cora Braun*^{1,2}, Christian Werle^{1,2}, Timo Eichner^{1,2}, Guido Palmer¹, Andreas R. Maier¹

¹Deutsches Elektronen Synchrotron (DESY), Hamburg, Germany

²Center for Free-Electron Laser Science & Department of Physics, Hamburg University, Hamburg, Germany



Photo: Marta Mayer



Ti:Sa amplifier

Compressor

LPA

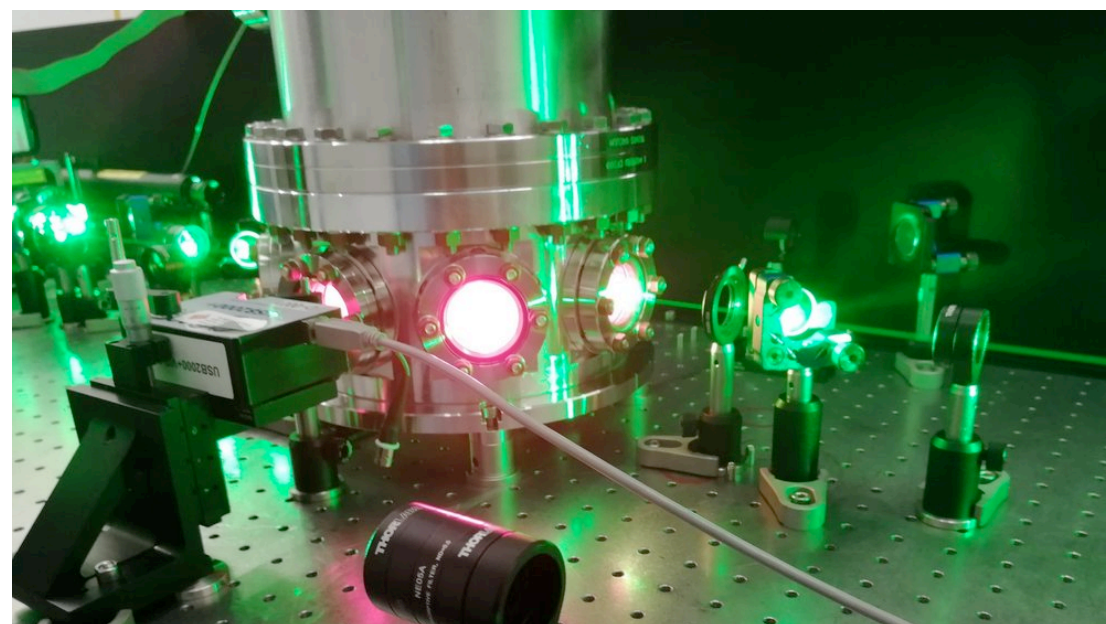
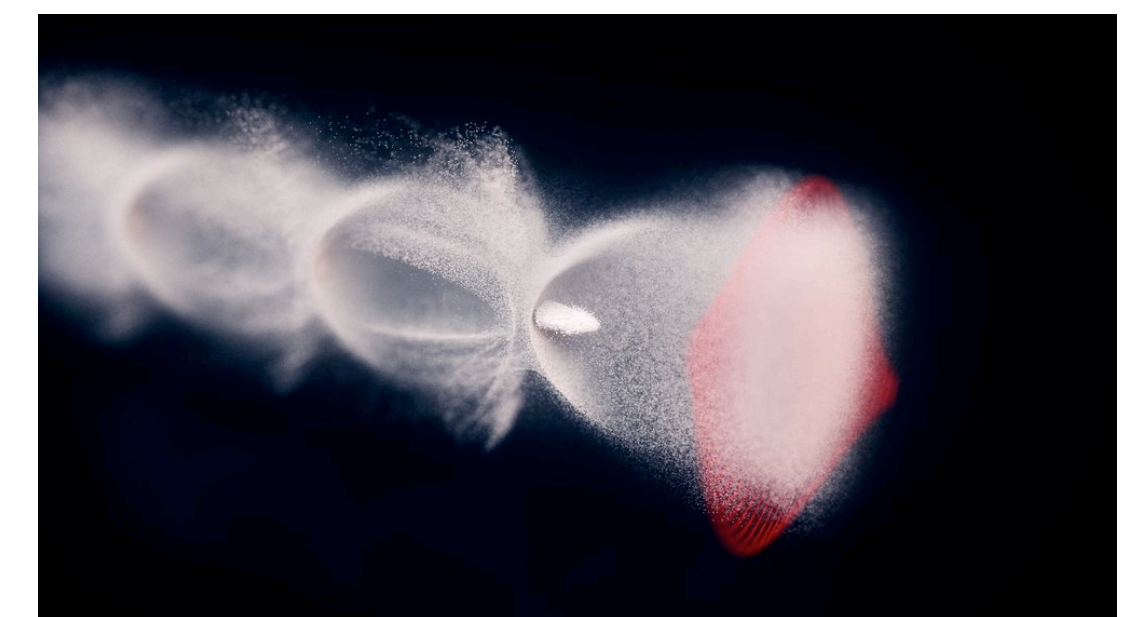
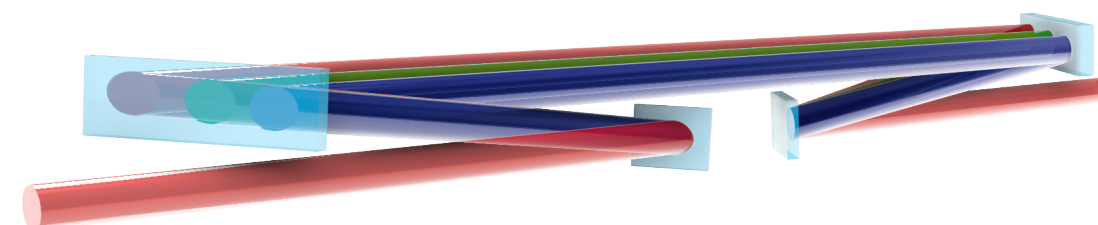
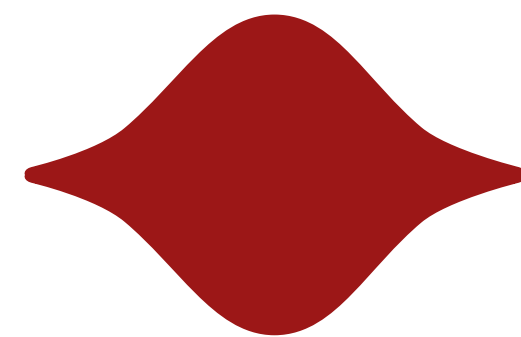


Photo: Juan B. Gonzalez (DESY)



Plasmawelle: Science Communication Lab, Manuel Kirchen, Sören Jalas für DESY

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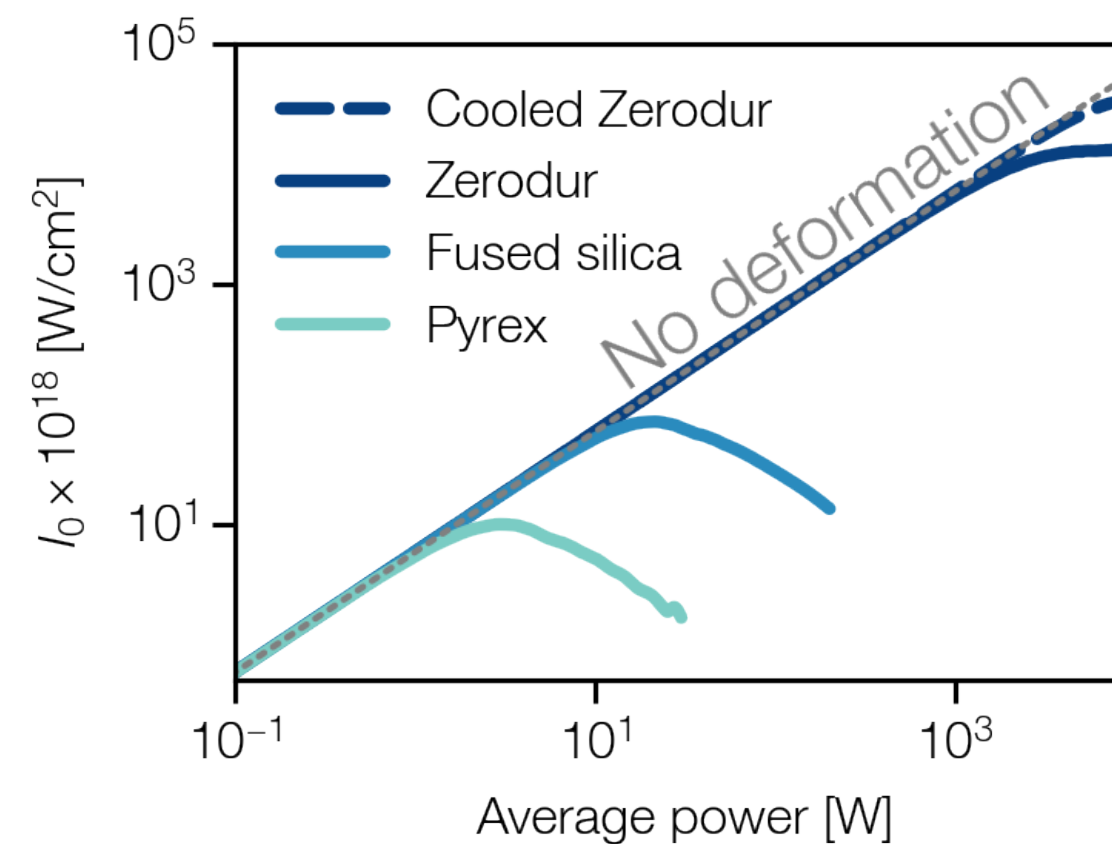
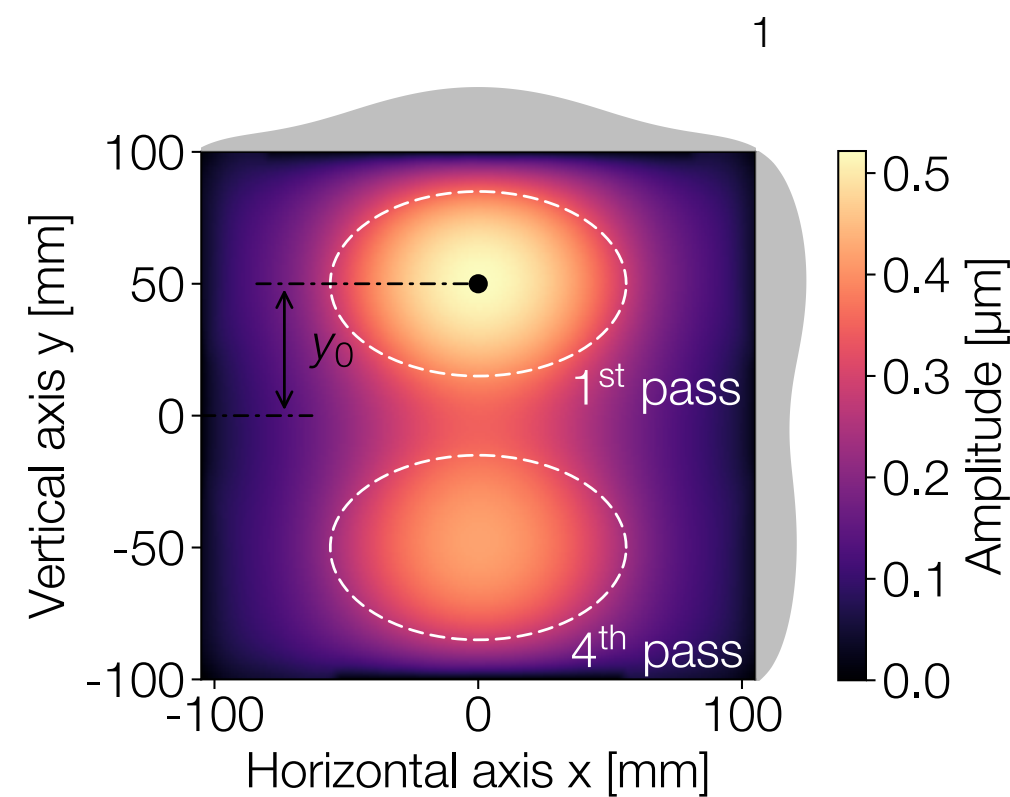
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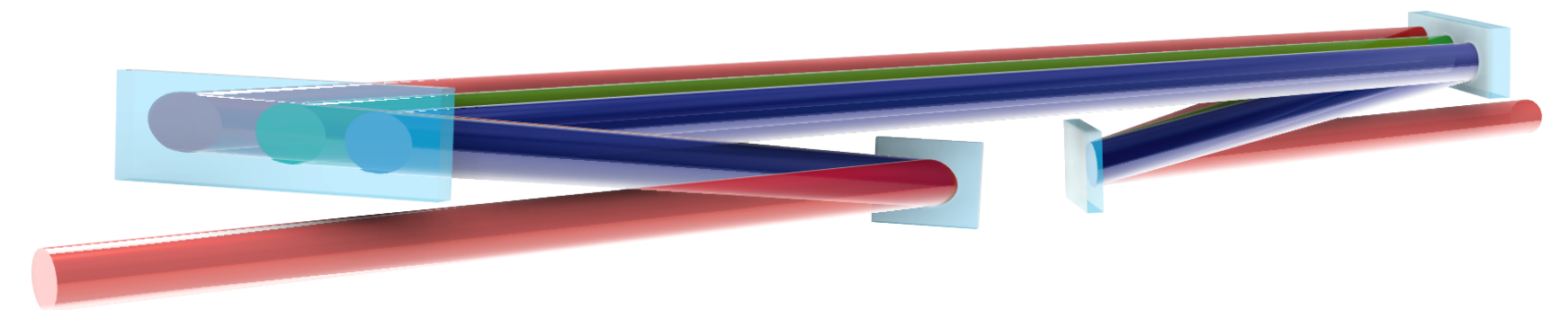
3-5 kW on grating



Gold gratings



Multilayer-Dielectric (MLD) Gratings^{2,3,4}



References
 [1] V. Leroux et al., Opt. Express 26, 13061 (2018)
 [2] D. A. Alessi et al., Opt. Express 24, 30015 (2016)
 [3] D. A. Alessi et al., Optics and Laser Technology 117, 239 (2019)
 [4] T. Erdogan, PGL Tech. Note (2018)

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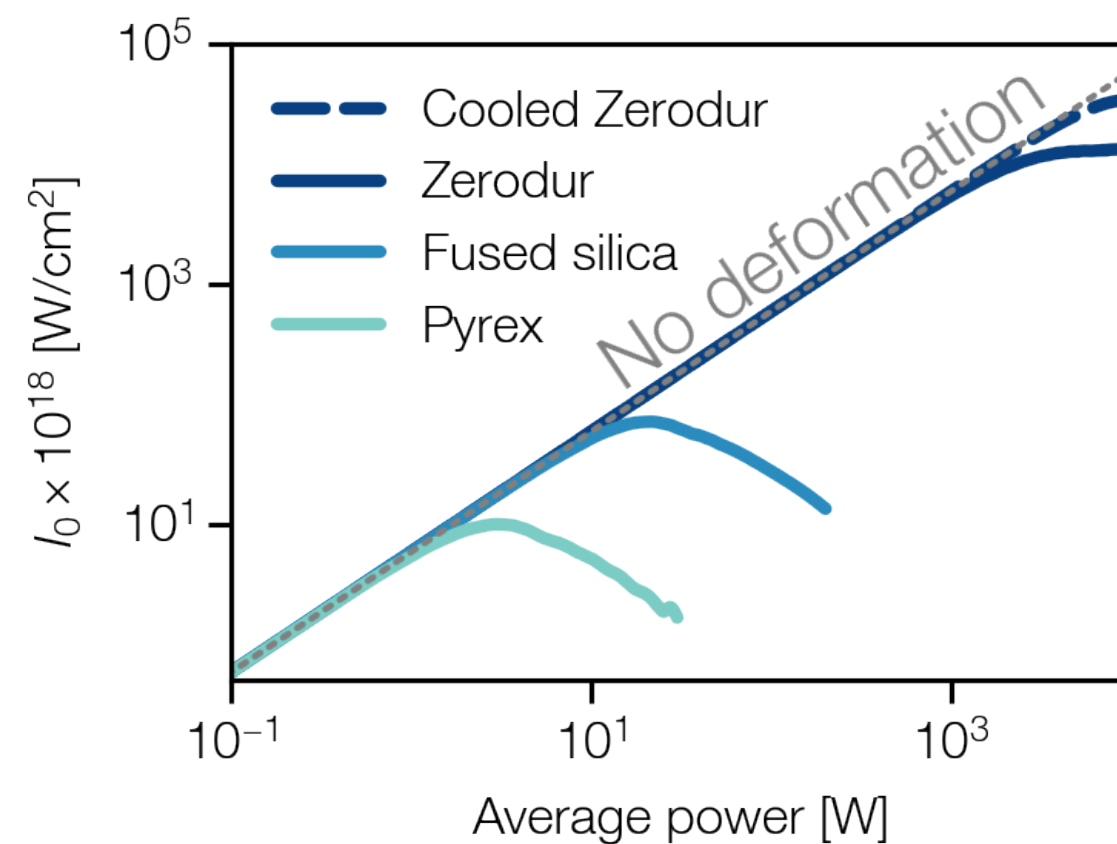
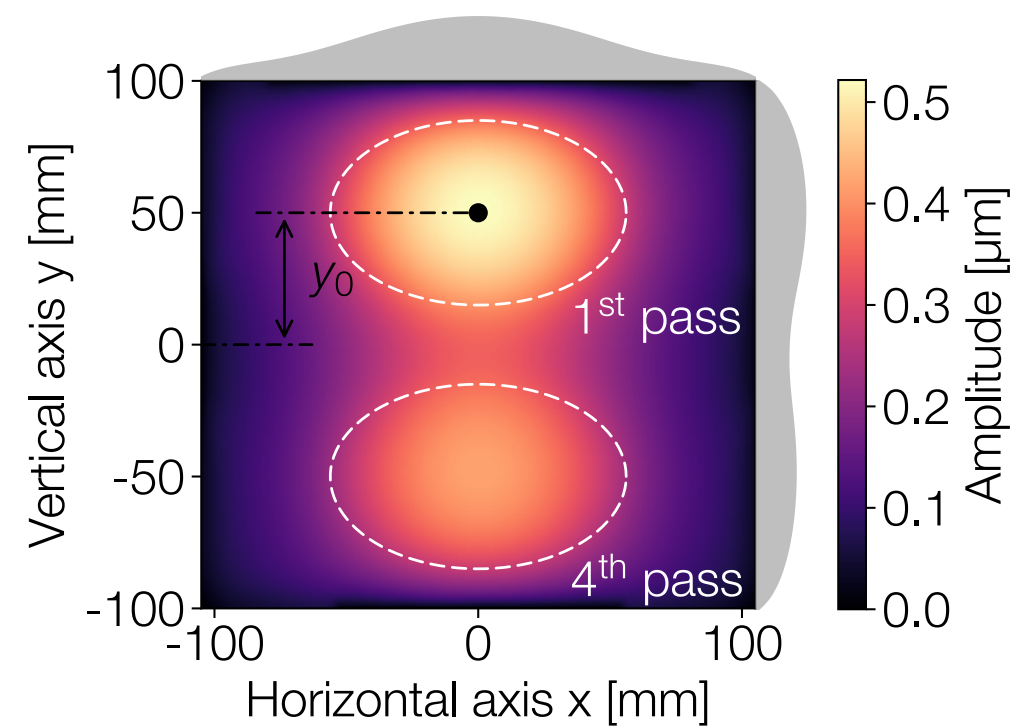
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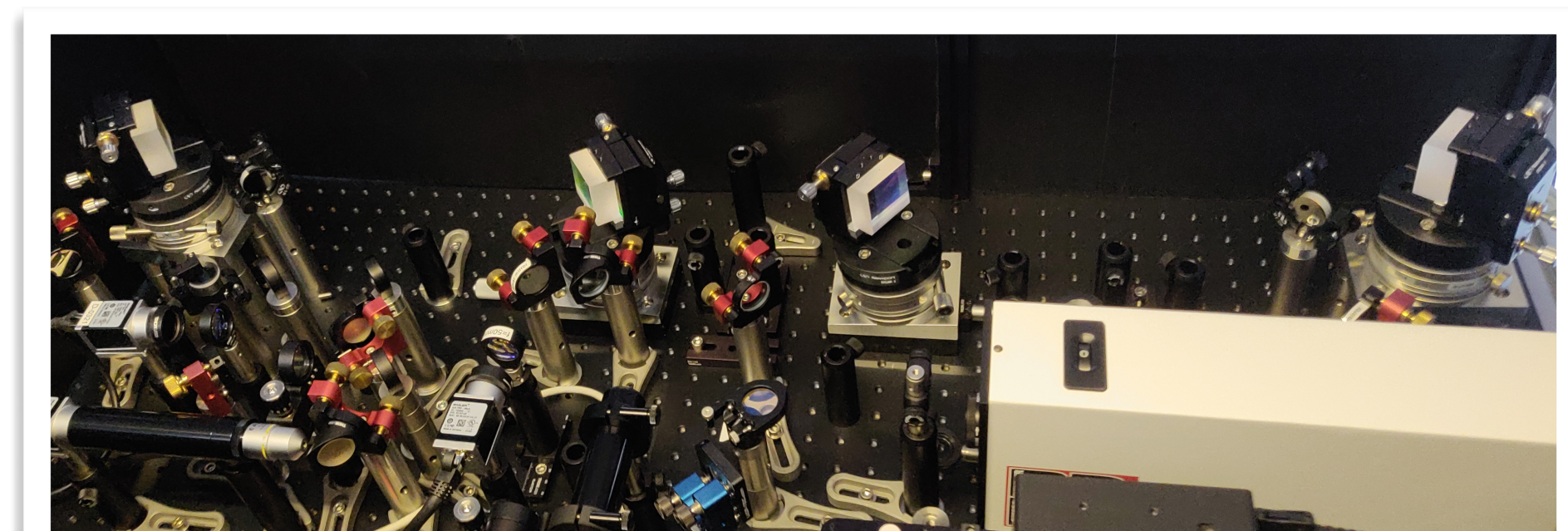
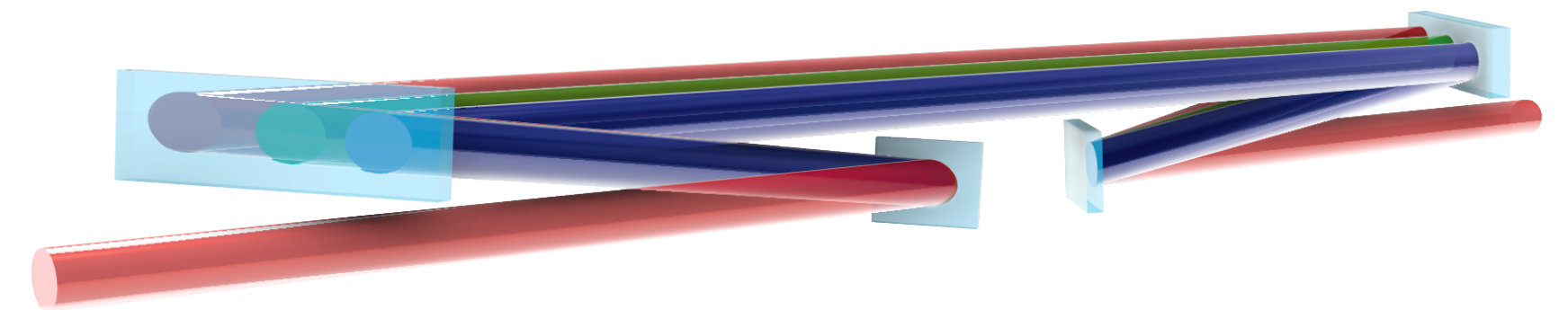
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