# VIS-to-NIR absorption spectroscopy of magneto-optical materials Fraunhofer for high-power laser applications IPM Tobias Trendle, Jens Kiessling, Jachin Kunz, Frank Kühnemann Fraunhofer Institute for Physical Measurement Techniques IPM, Heidenhofstraße 8, 79110 Freiburg, Germany













	TGG	KTF
064 nm) [rad/T*m]	39	36
064 nm)	1.944	~ 1.5
cient [10 <sup>-6</sup> /K]	17.9	1
ty [W/m*K]	7.4	1.67
K)]	0.40	0.43
coefficient [10 <sup>-6</sup> /K]	7	13
icient (1065 nm) [ppm/cm <sup>-1</sup> ]	1610 ± 90	210 ± 60

Data: Stevens2016, Jalali2017, this work

Fraunhofer IPM Spectroscopy and Process Analytics, Department Gas and Process Technology Heidenhofstraße 8, 79110 Freiburg, Germany; email: frank.kuehnemann@ipm.fraunhofer.de