



Luminescence, optics and magneto-optics software

Online tool for data fitting, simulation and evaluation

GRAPHICAL USER INTERFACE EXAMPLES

Reference: $80\text{TeO}_2-20\text{ZnO} - 20\text{BaO:Erx}$

Structure: Input file (template)

Please visit www.loms.cz for instructions how to fill this input file.							
ref_index_type	sellmeier						
sellmeier_A	1						
sellmeier_B1	0						
sellmeier_C1	0						
sellmeier_B2	0						
sellmeier_C2	0						
Please visit www.loms.cz for instructions how to fill this input file.							
excited_state	u2	u4	u6	input_data	mean_peak_wl_nm	refractive_index	barycenter
4I15/2	0	0	0	0	0		109
4I13/2	0.0194984	0.1173353	1.4316383	0	1520		6610
4I11/2	0.0281916	0.0003049	0.3952644	0	974		10219
4I9/2	0.1181329	0	0.0099097	0	801		12378
4F9/2	0	0.5353863	0.4617945	0	655		15245

Structure: Input file (reference, Er-doped material)

Reference data for Er - see www.loms.cz documentation for more details							
ref_index_type	sellmeier						
sellmeier_A	1						
sellmeier_B1	2.63526						
sellmeier_C1	0.01608						
sellmeier_B2	0.32898						
sellmeier_C2	0.07885						
Data source: absorption cross section for calculation of JO2, JO4 and JO6 parameters and radiative properties Hrabovsky (2024)							
excited_state	u2	u4	u6	sigma	mean_peak_wl_nm	refractive_index	barycenter
4I15/2	0	0	0	0	0		109
4I13/2	0.0194984	0.1173353	1.4316383	7E-19	1520		6570
4I11/2	0.0281916	0.0003049	0.3952644	9.41E-20	974		10202
4I9/2	0.1181329	0	0.0099097	3.41E-20	801		12412
4F9/2	0	0.5353863	0.4617945	1.48E-19	655		15237