Bound-Bound opacity for Lanthanide free at t = 2.5 days 2.5 0.0  $(cm^2/g)$ -2.5-5.0 $\log \kappa_{b-b}$ -7.5-10.0data from Tanaka +2018 reprocessed data  $\lambda_0 = 3.40$ -12.5fit:  $\alpha = 8.33$ ,  $\sigma = 0.012$  $\kappa = \kappa_0$ , with  $\kappa_0 = 1.44$  cm<sup>2</sup>/g 3.75 4.25 2.75 3.00 3.25 3.50 4.00 logλ (Å)