06:10:39 Jacky Baughman: A couple questions for Birk if we have time at the end: In part related to Rich’s question –
1) Can you identify and disentangle partial annealing, and/or how will partial annealing impact results?
2) Have you explored if/how increased damage affects the annealing temp? – This might be an important consideration for Tc estimates if reheating and annealing has occurred.
06:17:11 Birk Härtel: Thanks for the questions, Jacky!
So for 1), we can identify partial annealing, if recent, by using the Omega-Gamma relationship of each Raman band. If the zircons have accumulated damage later on, we only notice that not all damage has been retained (e.g. in the case of zircons reset by a thermal event). For 2), other than we expected, we didn't find any consistent relationship of damage and the fraction of repair in our annealing experiments. Still, this may occur for severely damaged zircons, I guess.
06:20:29 Jacky Baughman: Thanks Birk!