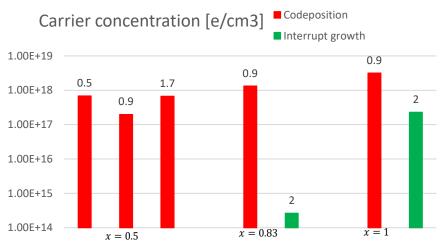
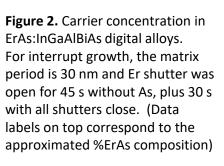


ErAs~1%



 $ErAs: (InGaBiAs)_r (InAlBiAs)_{1-r}$



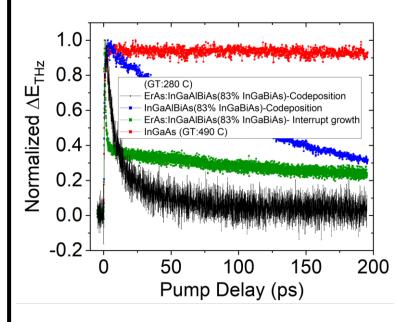


Figure 3. Optical pump (800 nm) THz probe on ErAs:InGaAlBiAs materials, showing a fast decay component of a few ps in samples with Er. We have also achieved sub-picosecond dynamics.