Contribution ID: **6** Type: **not specified**

Recent results on bistable cluster related defects

Monday 10 November 2008 14:35 (20 minutes)

It was previously shown, *that the bistable cluster defect levels E4aand E4b** anneal out at the same temperature like the divacancy in neutron and proton irradiated oxygen rich material (MCz and oxygen enriched Epi). Defect concentrations were obtained by means of Deep Level Transient Spectroscopy (DLTS) and Thermally Stimulated Current technique (TSC). In addition oxygen lean Epi and FZ material was investigated in the same way, in order to exclude an impurity dependence of those defects. First results of our study support the former observation. Furthermore, we observe that the DLTS and TSC signals of point defects, like the vacancy-oxygen complex and the divacancy, are strongly influenced by the presence of disordered regions (clusters).

- Work presented at the RADECS08 and RESMDD08 conference ** M. Moll et al., Nucl. Instr. & Meth. in Phys.Res. B 186 (2002) 100-110, also known as E4 and E5

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Session Classification: Defect and Material Characterization