



**3<sup>rd</sup> Workshop on Defect Analysis in Radiation Damaged Silicon Detectors  
Hamburg, 17. – 19. April 2008  
-Programme-**

**Thursday, 17-April**

**13:00-13:30, Welcome and organisational matters**

1. Welcome address  
*Robert Klanner (Uni Hamburg)*
2. Programme outline and organisational matters  
*Gunnar Lindstroem (Uni Hamburg)*

**13:30-16:00, DLTS and TSC results** (chair: Bengt Svensson)

3. **13:30-14:00**  
TSC-studies on isothermal annealing of neutron- and proton-irradiated EPI-diodes: Understanding of reverse annealing.  
*Ioana Pintilie, Uni Hamburg and NIMP Bucharest*
4. **14:00-14:30**  
DLTS-studies of neutron-irradiated MCz Si-diodes  
*Bengt Gunnar Svensson (Uni Oslo)*
5. **14:30-15:00**  
Evaluation of defect cluster parameters from DLTS measurements of neutron-irradiated Si-detectors  
*Leonid Makarenko (Uni Minsk)*
6. **15:00-15:30**  
Isochronal annealing of neutron-irradiated FZ- and MCz-Si-diodes – defect analysis as studied by TSC and DLTS  
*Alexandra Junkes (Uni Hamburg)*
- 15:30-16:00**  
Discussion on DLTS and TSC results

**16:00-16:30 Coffee break**

**16:30-19:00, FTIR, PL and EPR** (chair: Gordon Davies)

7. **16:30-17:00**  
Stable self-interstitial-oxygen-related defects in Si: what we can infer from FTIR studies  
*Leonid Murin (NAS Minsk and Uni Oslo)*
8. **17:00-17:30**  
Quantitative production of optical centers in neutron-irradiated silicon  
*Gordon Davies (Kings College London)*
9. **17:30-18:00**  
Photoluminescence studies of defect centers introduced in MCz-Si and FZ-Si by high-fluence neutron irradiation  
*Barbara Surma (ITME Warsaw)*

10. **18:00-18:30**

EPR studies of defect centers introduced in MCz-Si and FZ-Si by high fluence neutron irradiation

*Mariusz Pawłowski (ITME Warsaw)*

**18:30-19:00**

Discussion on FTIR, PL and EPR

## Friday, 18-April

**9:00-11:15, Recombination, Photoconductivity, Hall effect** (chair: Eckhart Fretwurst)

11. **9:00-9:30**

High resolution photoinduced transient spectroscopy of defect centers in MCz-Si and FZ-Si by high fluence neutron irradiation

*Jaroslav Zelazko (ITME Warsaw)*

12. **9:30-10:00**

Recent investigations of recombination characteristics

*Eugenijus Gaubas (Uni Vilnius)*

13. **10:00-10:30**

Analysis of deep level system transformation by photoconductivity spectra measurements

*Juozas Vaitkus (Uni Vilnius)*

14. **10:30-10:45**

Influence of annealing on inhomogeneity of irradiated Si by means of Hall- and magnetoresistance-effects

*Juozas Vaitkus (Uni Vilnius)*

**10:45-11:15**

discussion on  $\tau$ , PITS, Hall,....

**11:15-11:45 Coffee break**

**11:45-12:45, macroscopic effects, charge collection** (chair: Michael Moll)

15. **11:45-12:15**

Comparison of damage effects in MCz- and FZ-Si-diodes after neutron irradiation: influence of material and thickness

*Eckhart Fretwurst (Uni Hamburg)*

16. **12:15-12:45**

Annealing studies on MCz and FZ Si-diodes after 23 GeV proton irradiation

*Katharina Kaska (CERN)*

**12:45-14:00 Common lunch**

**14:00-15:30 charge collection, continued, recoil energy spectrum** (chair: Gregor Kramberger)

17. **14:00-14:30**

Isochronal annealing of neutron-irradiated FZ- and MCz-Si-diodes: effect on the trapping times for electrons and holes

*Marie Bock (Uni Hamburg)*

18. **14:30-15:00**

Charge collection measurements on n- and p-type MCz and FZ Si-diodes after neutron, proton and pion irradiation

*Gregor Kramberger (IJS Ljubljana)*

19. **15:00-15:15**

TRIGA irradiation characteristics, from the measured neutron spectrum to the Si-recoil energy distribution

*Gunnar Lindström (Uni Hamburg)*

**15:15-15:45**

Discussion on macroscopic effects, charge coll., recoils

**15:45-16:15 coffee break**

**16:15-19:00 General discussion I** (chair: Gordon Davies,....)

20. **16:15-16:30**

Topics to be enlisted in a first WODEAN publication

*Gordon Davies (Kings College, London)*

21. **16:30-19:00**

General discussion, outline of the foreseen paper,.....

**Saturday, 19-April**

**9:00-11:30 General discussion II (publication draft, task list, future work..)**

(chair: Gordon Davies, Leonid Murin, Bengt Svensson,.....)

22. **9:00-11:30**

publication draft, task list

23. **11:30-12:15**

future work, next meeting, aob

(coffee break on demand)

**12:15-13:30 Common lunch**

**14:00-? Sightseeing or whatever you like, depending on the weather condition**