

9th European HICUM Workshop

October 23, 2009

University of Applied Sciences, Würzburg, Germany

Workshop Organization: Anindya Mukherjee, Michael Schröter

Local arrangements: Peter Baureis

Agenda

08:30 M. Schröter (CEDIC): Welcome and Opening

Session I – Model implementation and its application

08:40 M. Schröter, A.Mukherjee (CEDIC): HICUM – Productization and Support Update

09:00 Ahmed Fathy Abo-Elhadeed Hassan (Mentor Graphics): HICUM Status in Eldo/EldoRF

09:20 J. Berkner (IFX): HICUM L0 v1.2 its implementation in mmsim7.1.1/Spectre and ADS2009u1

09:40 D. George (UP, SA): SiGe based Multiple-phase VCO Operating for mm-Wave Frequencies

10:00 C. Rensburg (UP, SA): A SiGe BiCMOS LNA for mm-Wave Applications

10:20 M. Weststrate (UP, SA): Design and Simulation of Wideband LNAs up to 60 GHz

10:40 Break

Session II – Parameter Extraction (Pre Lunch session)

11:00 D. Celi (ST): An attempt to determine the emitter size of bipolar transistors from electrical measurements

11:30 J. Krause (CEDIC): Parameter extraction issues in HICUM/L2 for very advanced HBTs

12:00 Lunch

Session II – Parameter Extraction (Post Lunch session)

- 13:00 B.Ardouin (XMOD): Parameter extraction for III-V HBTs / SiGe HBTs
13:30 All: Discussion

Session III – Compact Modeling

- 13:45 Z. Huszka, E.Seebacher (AMS): Removing the Internal Iteration Loop from Hicum/L2
14:15 A. Pawlak (CEDIC): A HICUM extension for medium current densities
14:45 T. Zimmer (IMS): InP-HBT modelling with HICUM
15:15 M. Schröter (CEDIC): Future model development
15:45 All: Discussion
17:00 Adjourn

Note: Presentation time slots include talk and 5min discussion .Schedule leaves enough space for discussions (which are an important feature of this workshop).