

Module Retest 2012

for all Modules at PSI made Pretests on 29.02.2012

PSI:

- 48 Modules from Pilot setup: 46 failed Pretest, 1 working Module (new grade C) given to Aachen last December. One additional working Module found yesterday
- 22 other Modules (4 with too short cable), 11 failing Pretest, 7 working.
- 10 *schrott* Modules
- 8 half Modules at PSI, 3 failing Pretest, 5 working
- 26 half modules at PSI w/o cable

ETH:

- 8 Modules at ETH, 4 *schrott*, 1.5 working (1 power cable defect), 2 failing Pretest

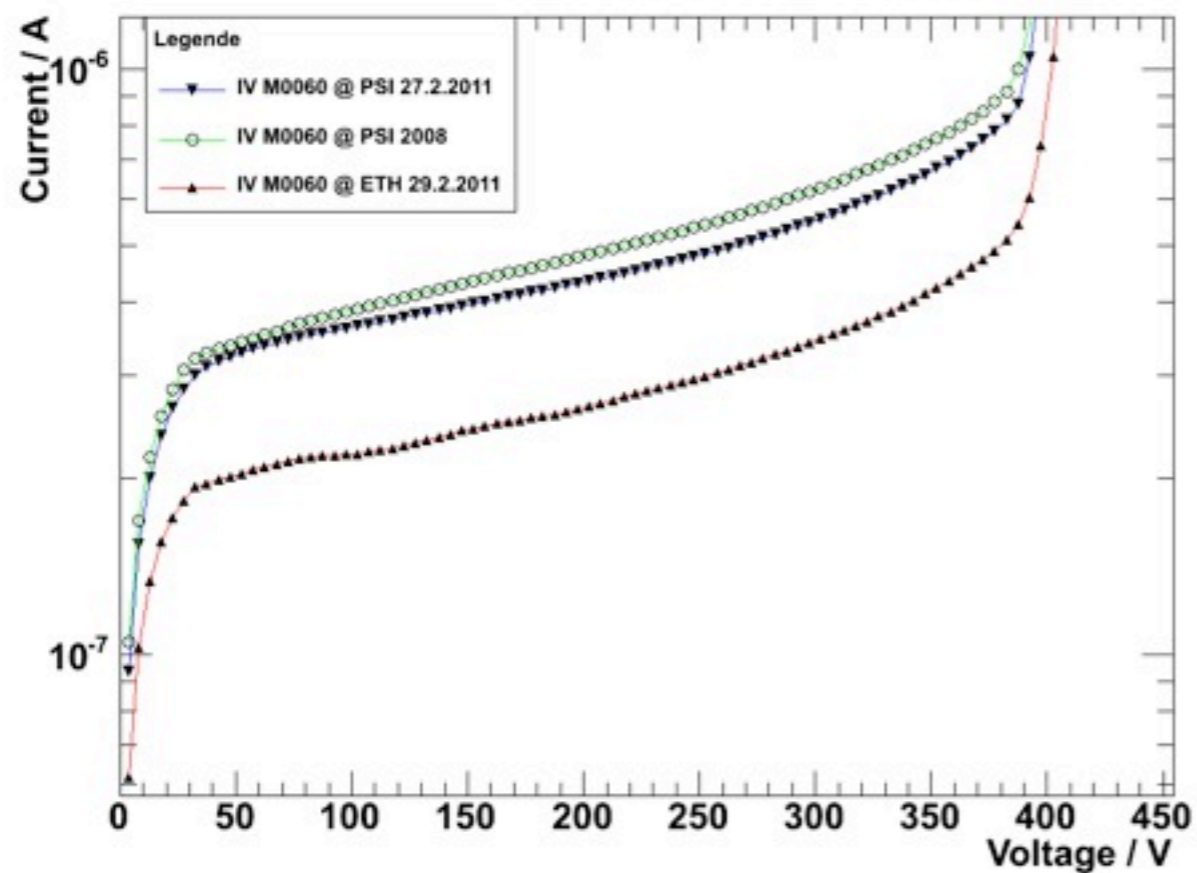
Elsewhere:

- 5 working modules at DESY (1), Perugia (1), Karlsruhe (1), Aachen (2)

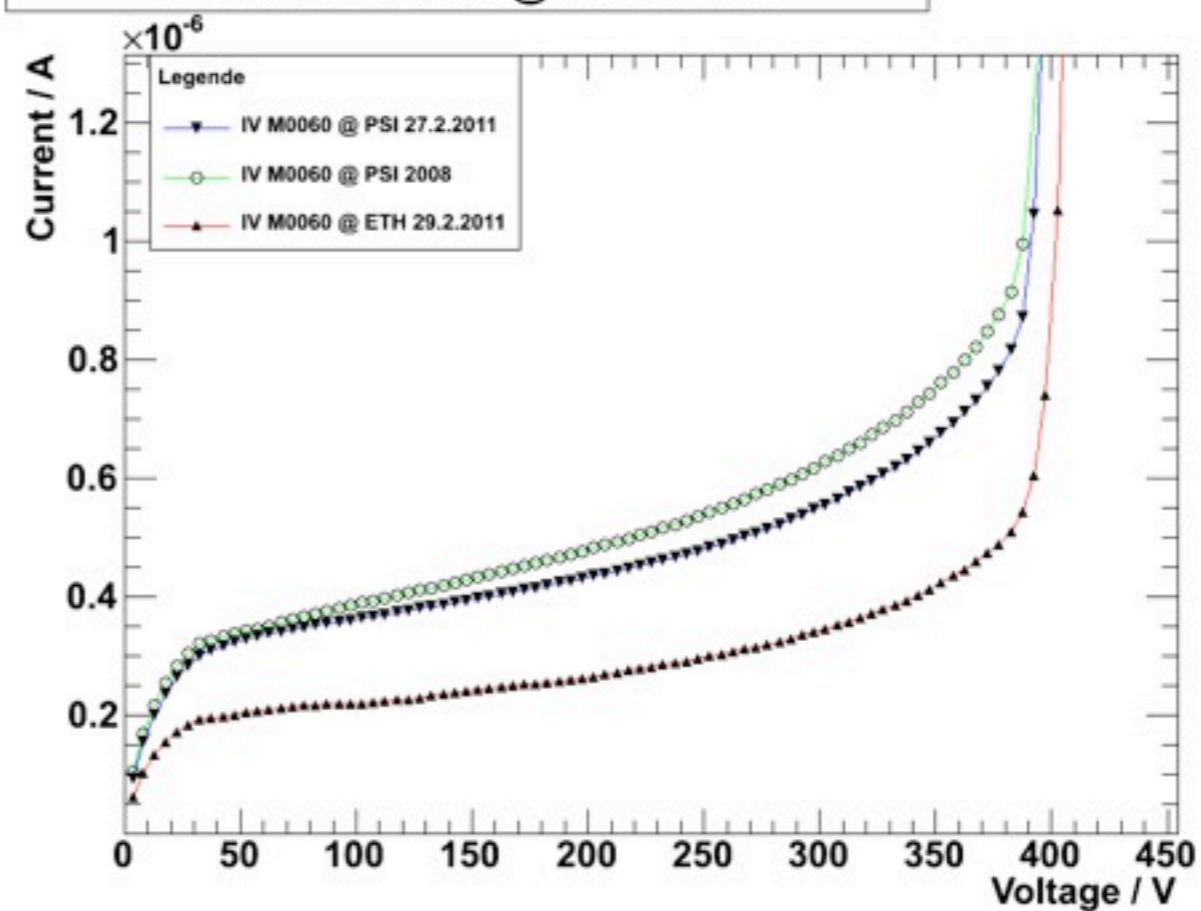
Module #	Date	original grade	leakage current	where?	Wirebonds	cable length *	Pretest / working?	new grade	comment	add. comments
M0158				PSI		1	no DTL, no Ana readout		extremely short cable	
M0163	29.02.2012	A	0.7	PSI		1	no DTL, no Ana readout			
M0171	29.02.2012	C	rising > 100	PSI		1	no DTL, no Ana readout		CC7	
M0273	29.02.2012	A		PSI		1	no DTL, no Ana readout			
M0490	29.02.2012	A	1.7	PSI		1	no DTL, no Ana readout			
M0644	29.02.2012	A	1.8	PSI		1	no DTL, no Ana readout			
M0674	27.02.2012	A	1.5	PSI		1	no DTL, no Ana readout			
M0696	29.02.2012	A	0.8	PSI		1	no DTL, no Ana readout			
M0722	22.02.2012	C (B71) / good	1.8	PSI		3	ok		One bad pixel	
M0722	29.02.2012			PSI		3	ok			
M0823	27.02.2012	A		PSI		3	ok			
M0827	22.02.2012	A / good	0.8	PSI		3	ok		seems to be perfect	
M0893	29.02.2012	B		PSI		3	ok		with PT100	chip 4.5.10611 pixel defects
M0917	27.02.2012	A	0.26	PSI		1	no DTL			
M1116	29.02.2012	A	0.7	PSI		1	no DTL, no Ana readout		No TBM cap, no bar code	
M1170	27.02.2012	B / good	2.8	PSI		3	ok		One dead pixel on	

IV curves

IV-Curves of M0060 @ ETH and PSI

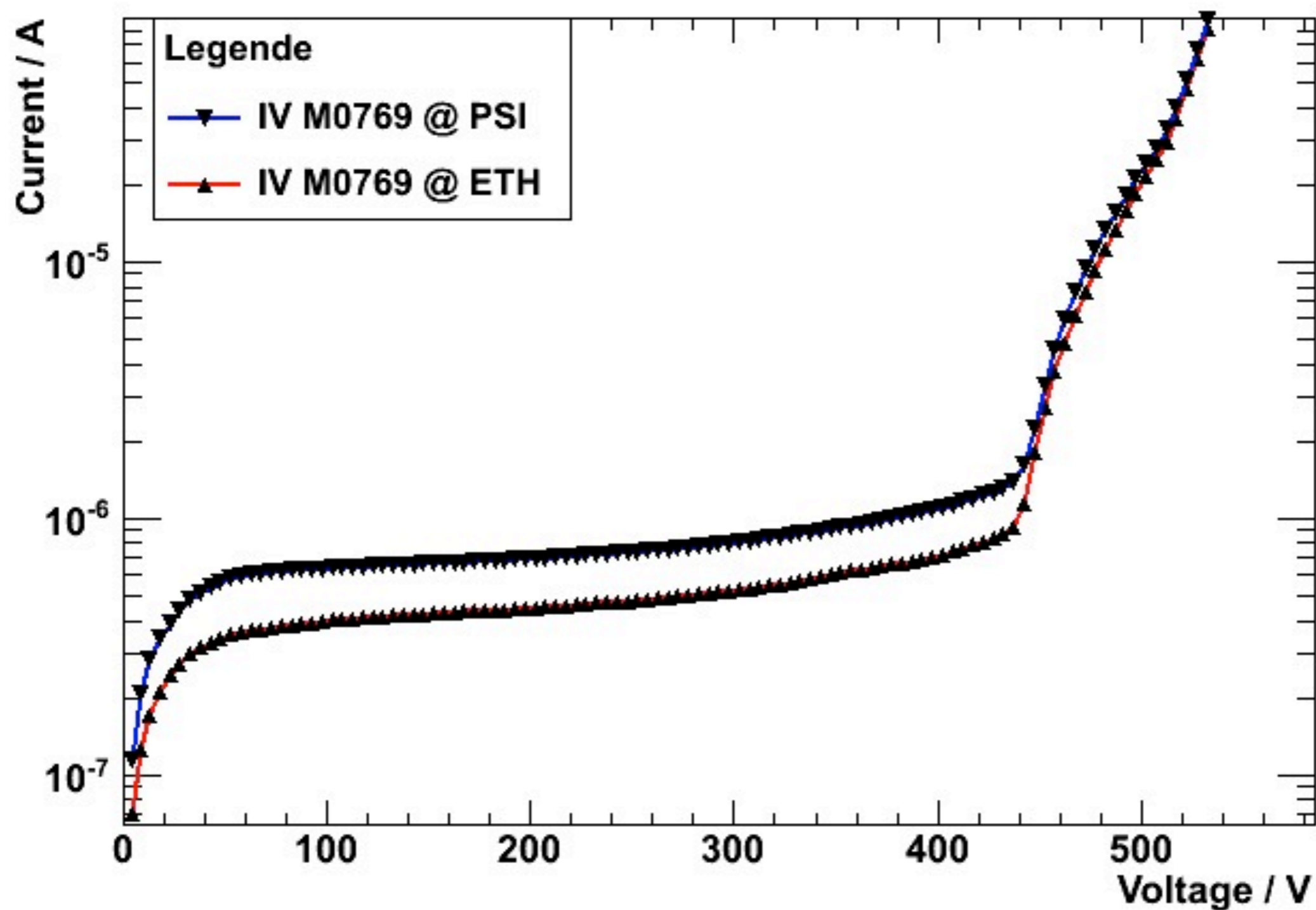


IV-Curves of M0060 @ ETH and PSI



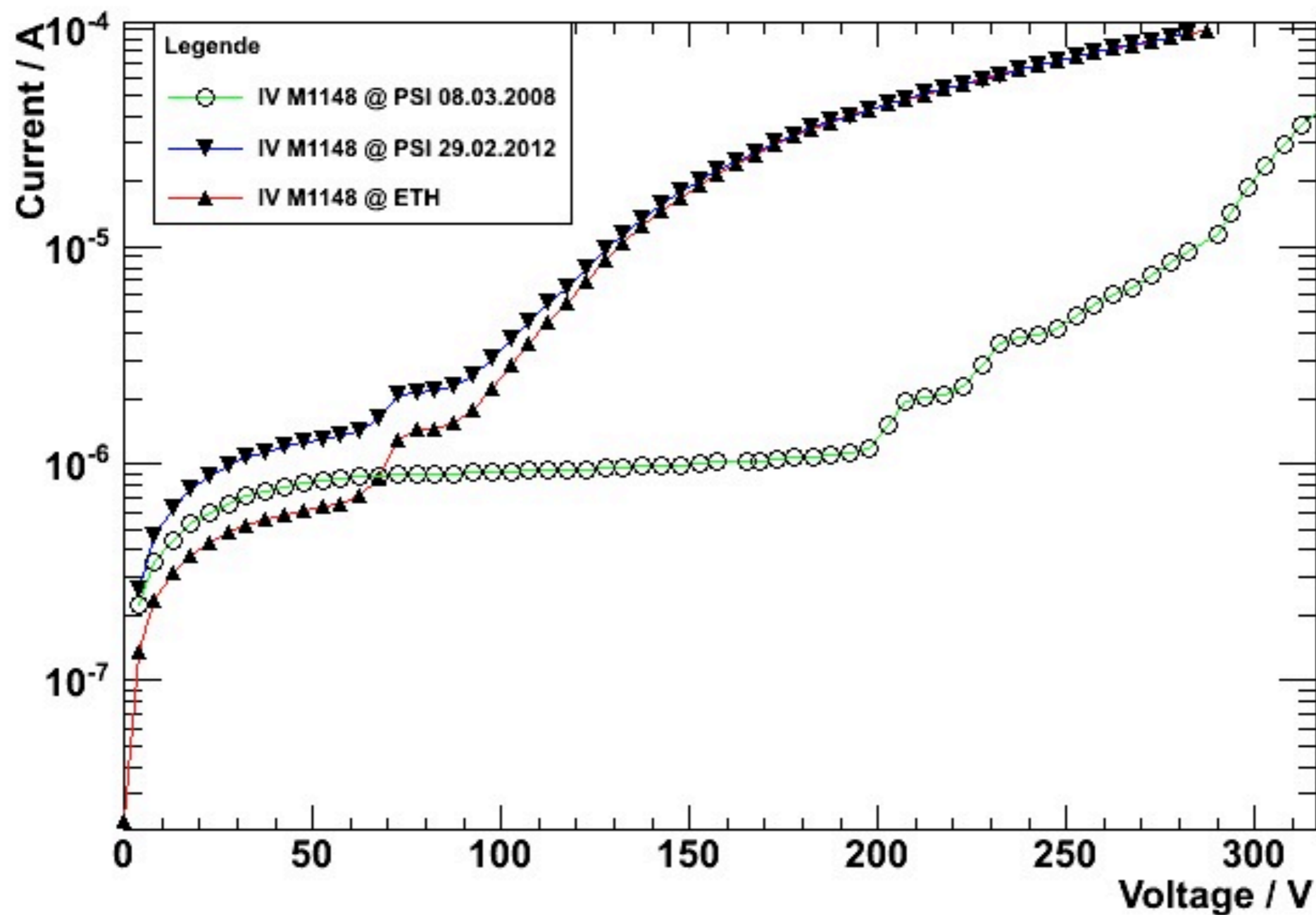
IV curves

IV-Curves of M0769 @ ETH and PSI



IV curves

IV-Curves of M1148 @ ETH and PSI



Vacuum pump



company	KNF	Pfeiffer	Pfeiffer
model	N920	MVP020	MVP040
delivery [l/min]	20	20	40
ultimate vacuum [mbar abs.]	1.5	≤ 2	≤ 4
sound pressure level [dB]	not known	48	< 53
Price [CHF]	2194,-	1912,-	2099,-

preferred pump