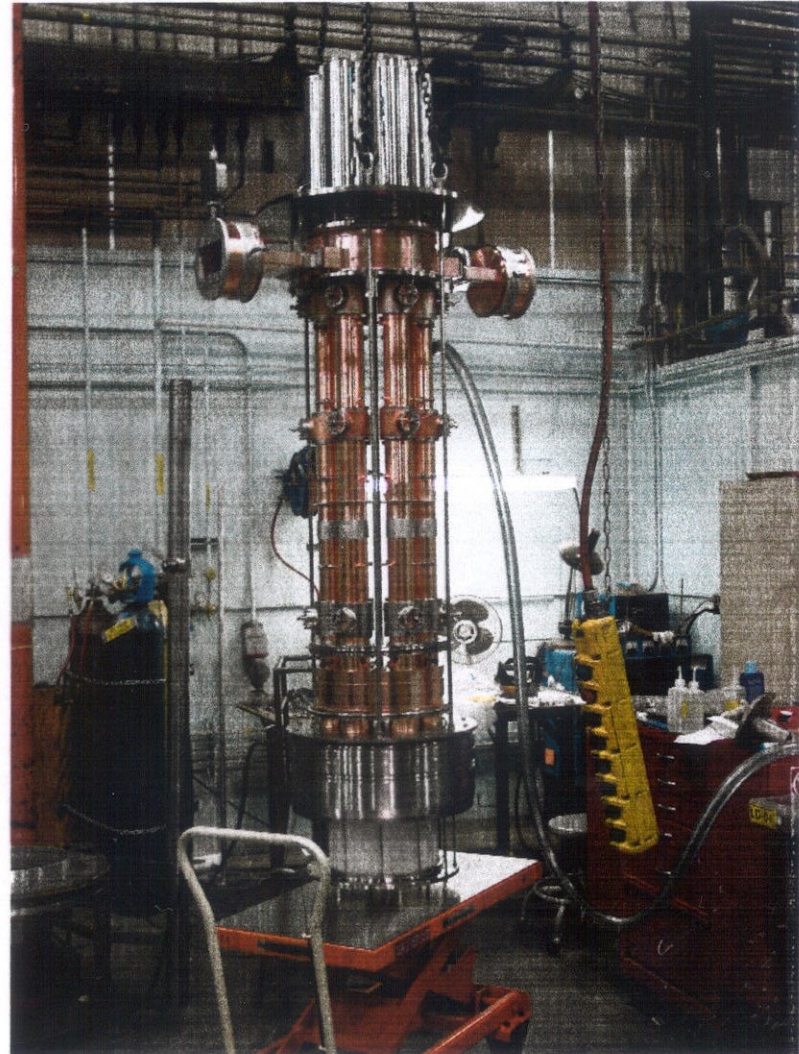


# CPI VKL-8301 Status

S. Choroba, DESY

# Status on January 16th, 2004

- MBK ready for bakeout
- Test scheduled for February 2004



# Project

- Contract awarded September 2001
- Limitations, provisos and other requirements by the US Department of State in February 2002
- Preliminary Design Review March 2002  
Phase I finished
- Critical Design Review Part I June 2002
- Critical Design Review Part II September 2002  
with the help of SLAC personnel  
Phase II finished

## Typical Operating Parameters

Peak Power Output	10	MW (min)
Ave. Power Output	150	kW (min)
Beam Voltage	114	kV (typ)
Beam Current	131	A (typ)
Efficiency	65 - 67	% (typ-goal)
Frequency	1.3	GHz
Pulse Duration	1.5	ms (min)
Saturated Gain	47	dB (min)
Number of Beams	6	
Number of Cavities	2+3+1	HOM, fund., harmonic
Focusing	CFF	
Cathode loading	$\leq 2.5$	A/cm <sup>2</sup> (typ)
Solenoid Power	4	kW (typ)
Length	2300	mm (typ)
Diameter	560	mm (typ, gun)

