Subject: Test Results Of Chamber L2C0#3
Posted by Sascha Freuen on Thu, 30 Sep 2004 13:33:11 GMT
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Dear All

As an example, the results of testing chamber l2C0#3 are shown below (leakrate, gain curve, gain uniformity)

1.Leakrate
==========
The oxygen content within the chamber is measured in intervals of 5 minutes.
The asymptotic value is an indicator of the leakrate.
The flow rate was set at 10 l/h which leads to a time constant of ~4h
Fit : f(x)=a+b*exp(-c*x)

2.Gain Curve
============
The anode voltage is increased in steps of 20 V starting at 1000 V up to 1600 V.
At each step the anode current is recorded.
Fit : f(x)=a+b*exp(c*x)

3.Gain Uniformity
=================
There are two different measurement modes:

1. 1D scans with 4mm steps .Here you can clearly see the radiator bars, which absorb very strongly

1.1 4mm steps scan in z-direction at two different phi positions

1.2 4mm steps scan in phi-direction at two different z positions

2. A full 2D scan with 4cm equidistant steps. Here one can only see the radiator bar in the middle very clearly, due to the bigger step size.