

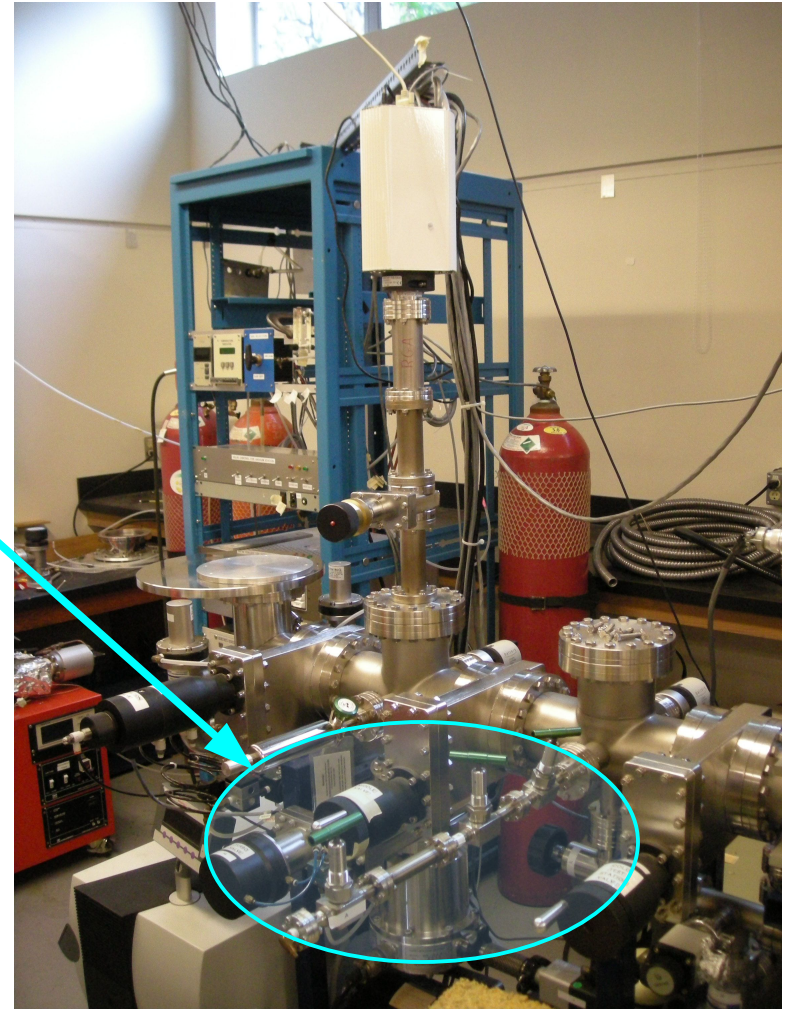
Status Report of Gas Studies at UVic

Julia Franta and Mike Roney
University of Victoria

SuperB DCH Meeting
July 21, 2009

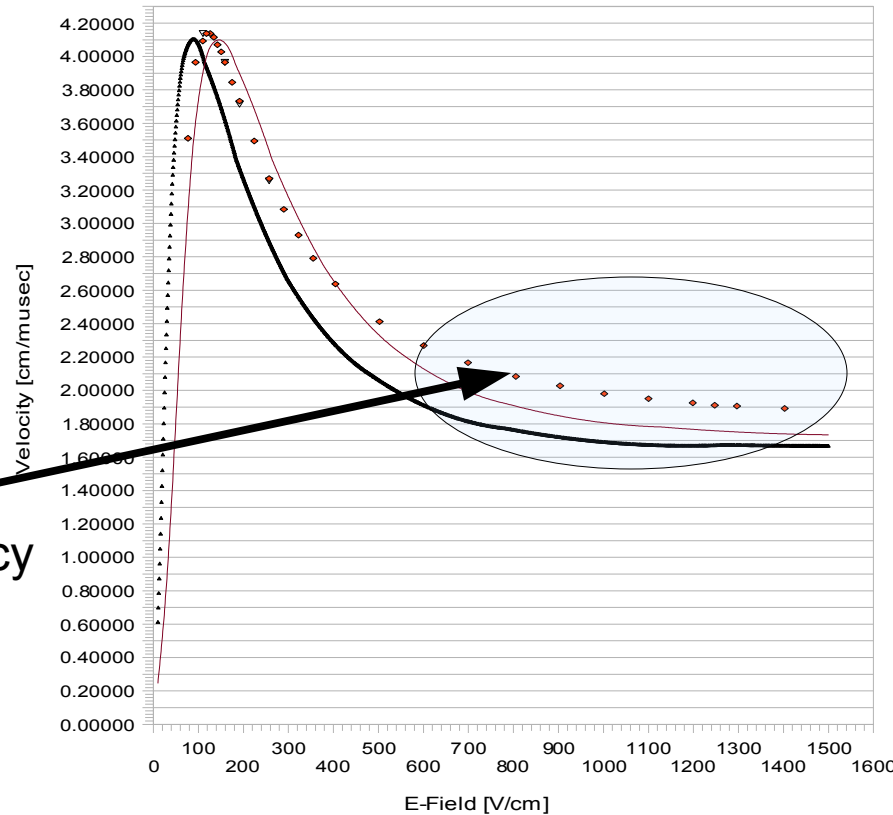
Progress since Perugia...

- Mass Spec Residual Gas Analyzer (RGA) now used to analyse gas samples from stainless sampling bottle attached on outlet line
- Mass Flow Controllers (MFCs) now used for mixing gases
- Drift velocity results for He/Isobutane 80/20



Ar/CH₄ 95/5 velocity data cf magboltz

P5 drift velocity



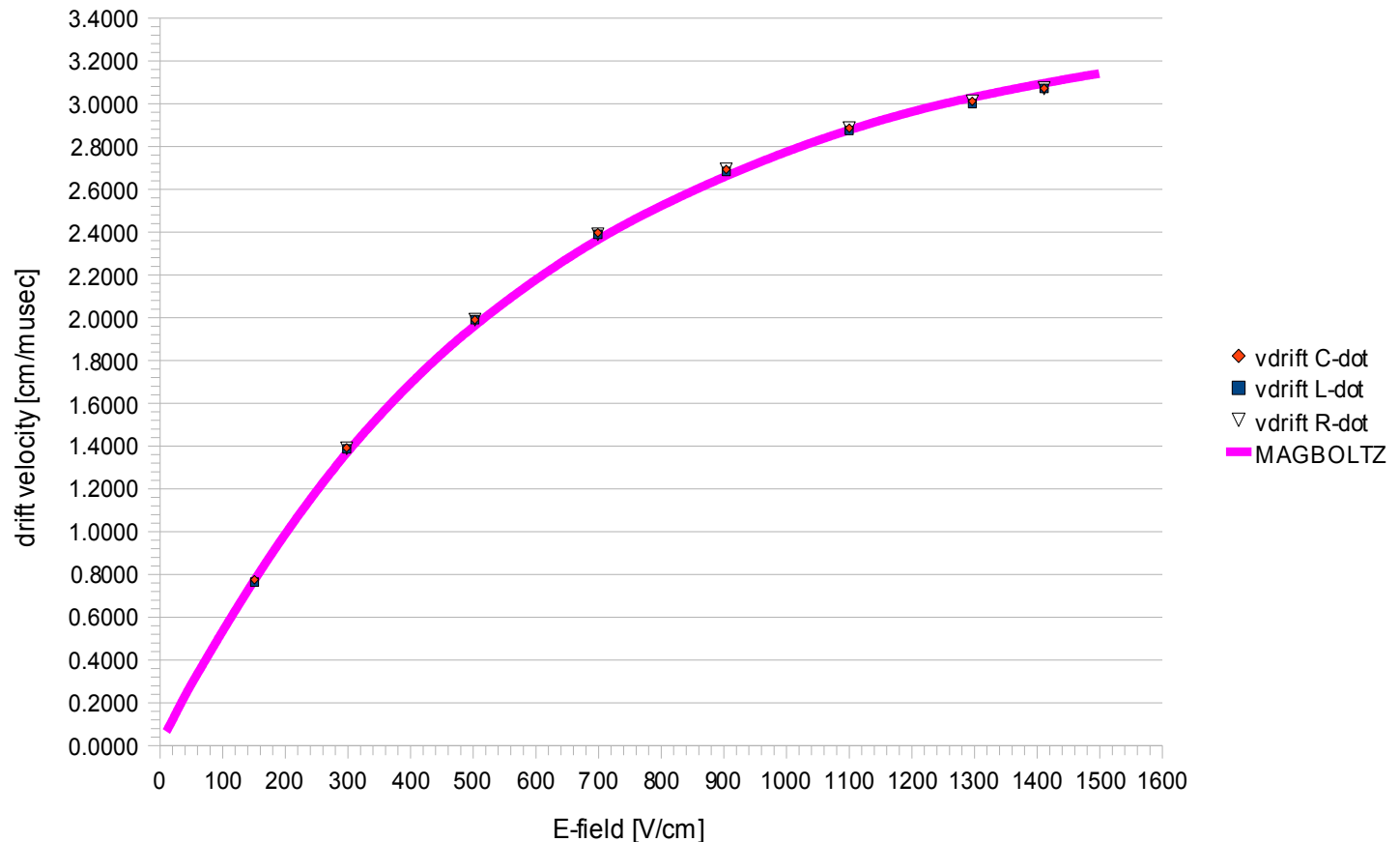
- ◆ DATA w/ t0=.1634
- MAGBOLTZ 0.16% H2O
- ▽ STABILITY CHECK
- ▲ MAGBOLTZ

estimate
correlated
error of ~2%

Apparent discrepancy
at high fields.
Under investigation

He/Isobutane 80/20 velocity data cf magboltz

He/Iso 80/20 Drift Velocity on 3 Dots



Next steps...

- Next gases:
 - ▣ He/Isobutane 70/30 and 90/10
 - ▣ He/CF₄/Isobutane: 80/10/10; 80/15/5; and 80/5/15
- studies of diffusion using pulse shapes
- studies of gain: comparing to P5