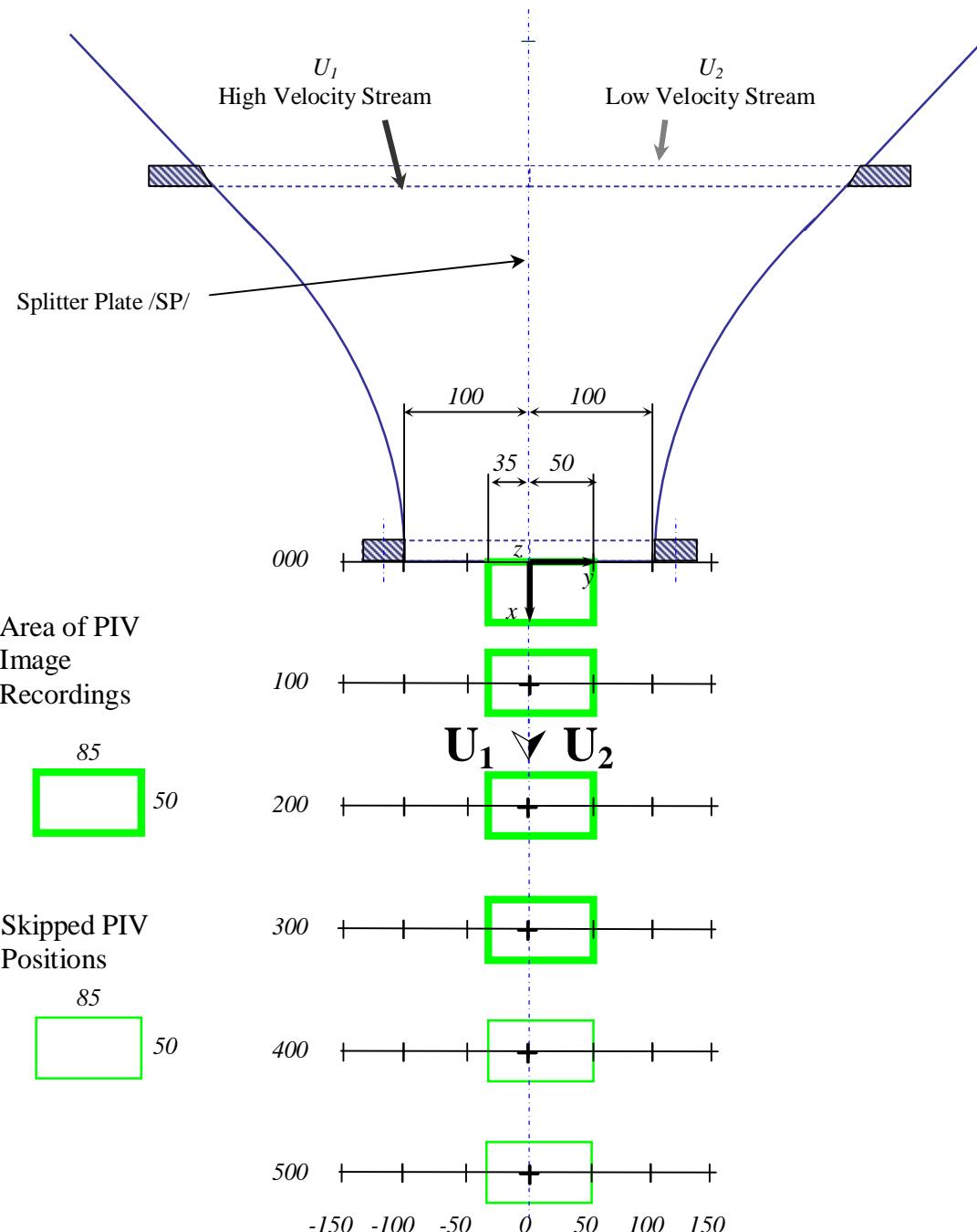


SINGLE PHASE FLOW Particle Image Velocimetry RESULTS

100 images at 4 positions for 2 velocity ratios ($100 \times 4 \times 2 = 800$)

Processing: u' , v' , U_{mean} , V_{mean} , RMS, T.I., Ω_z ,

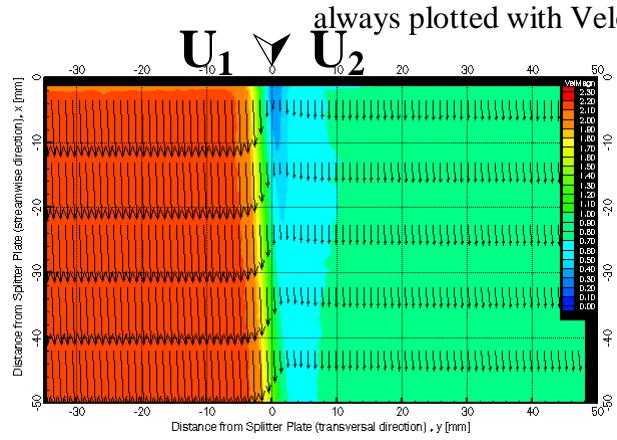
(159×95) vectors in (1280×768)pixel or $\approx (85 \times 50)$ mm area



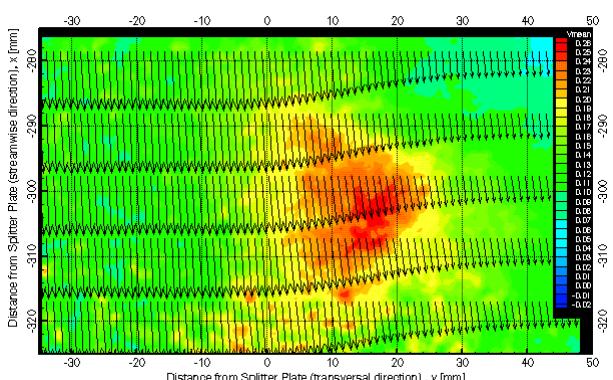
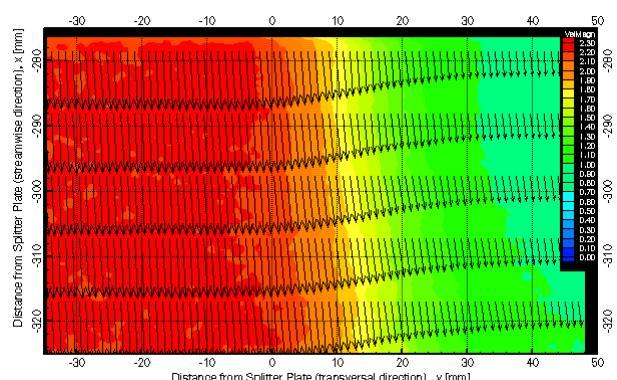
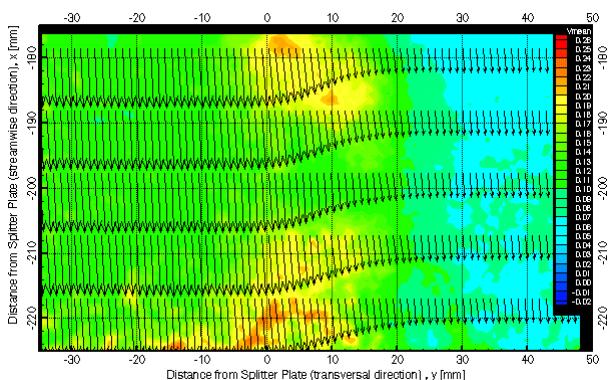
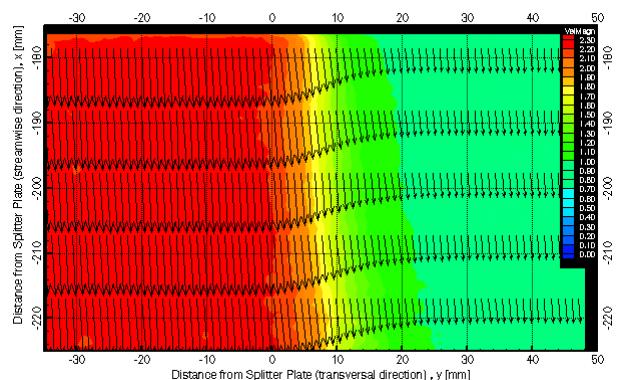
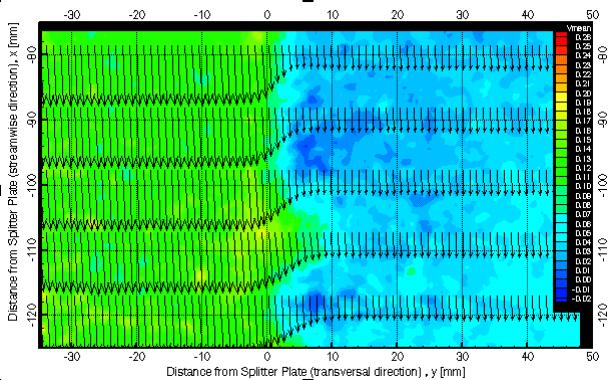
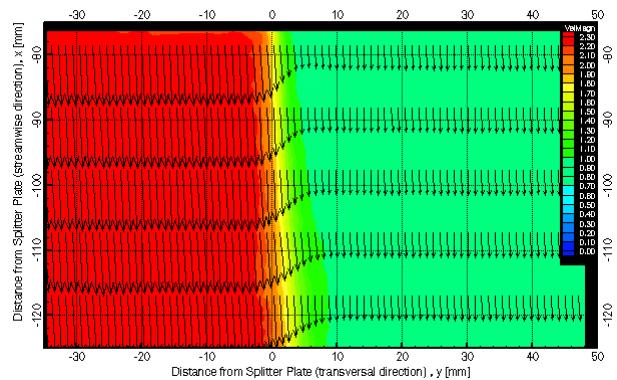
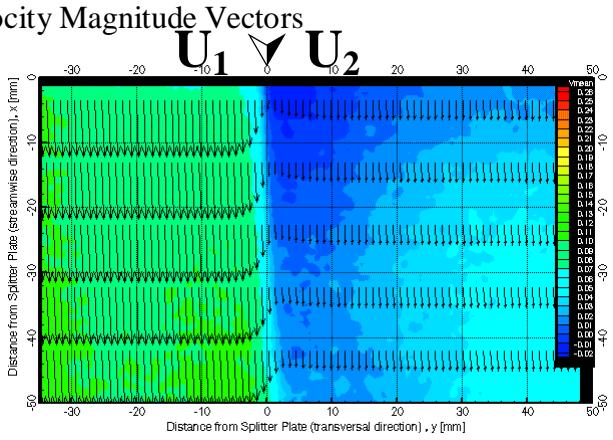
Test Section and Measurement Positions
dimensions in [mm]

LEFT

Velocity Magnitude
[0, 0.1, ... 2.3] m/s

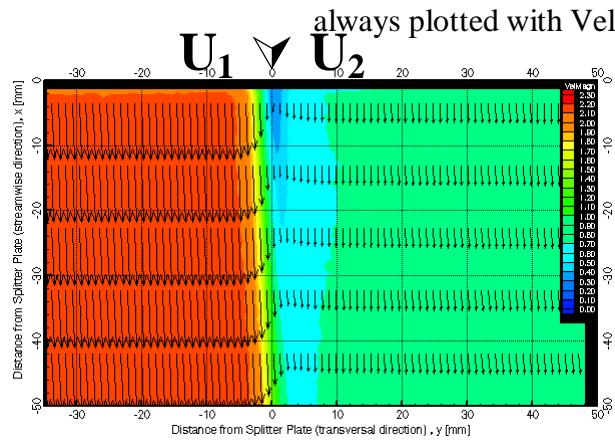
**RIGHT**

$V_{\text{mean}} / y \text{ transversal} /$
[-0.02, -0.01, ... 0.26] m/s

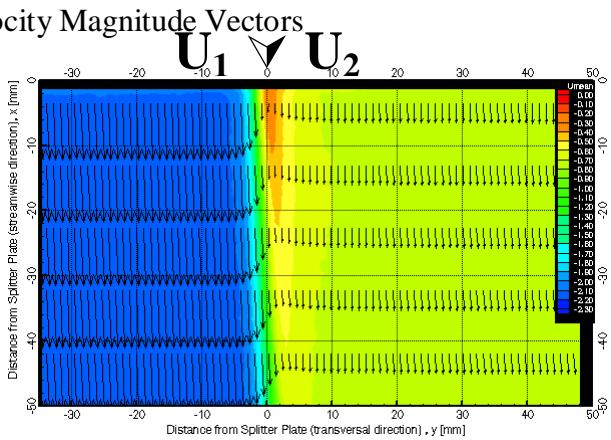


LEFT

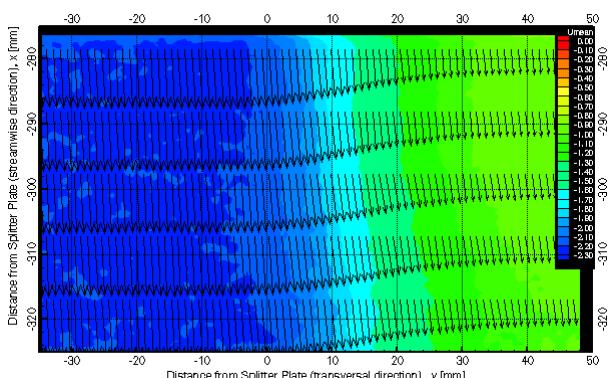
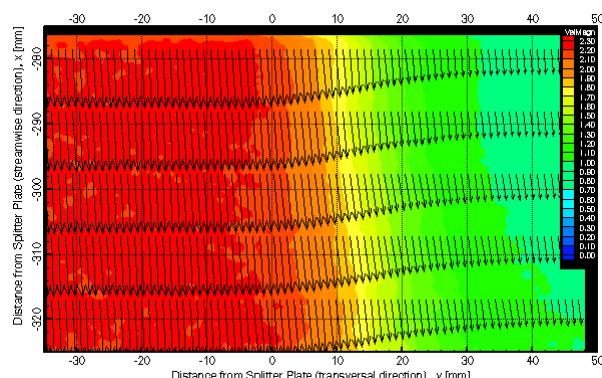
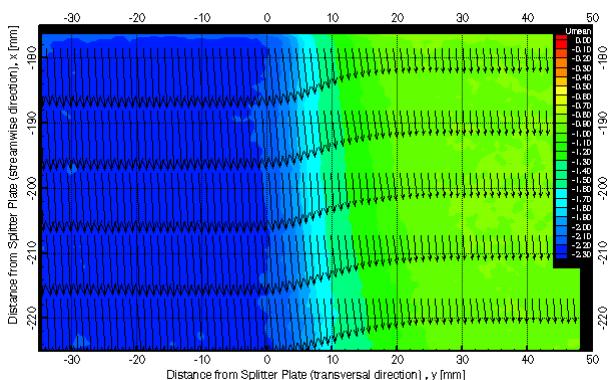
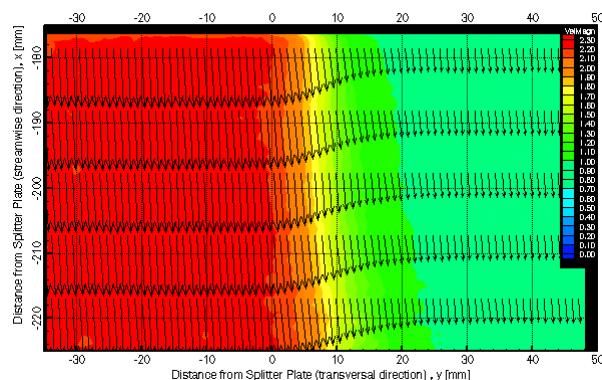
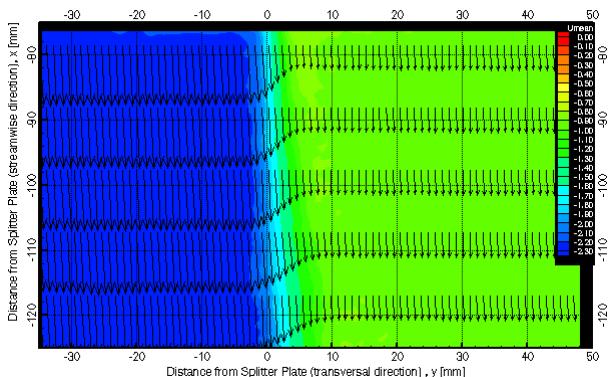
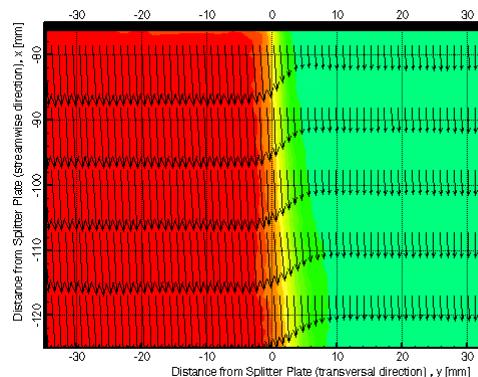
Velocity Magnitude
[0, 0.1, ...+2.3] m/s

**RIGHT**

$U_{\text{mean}} / x \text{ streamwise} /$
[-2.3, -2.2, ... 0] m/s



always plotted with Velocity Magnitude Vectors

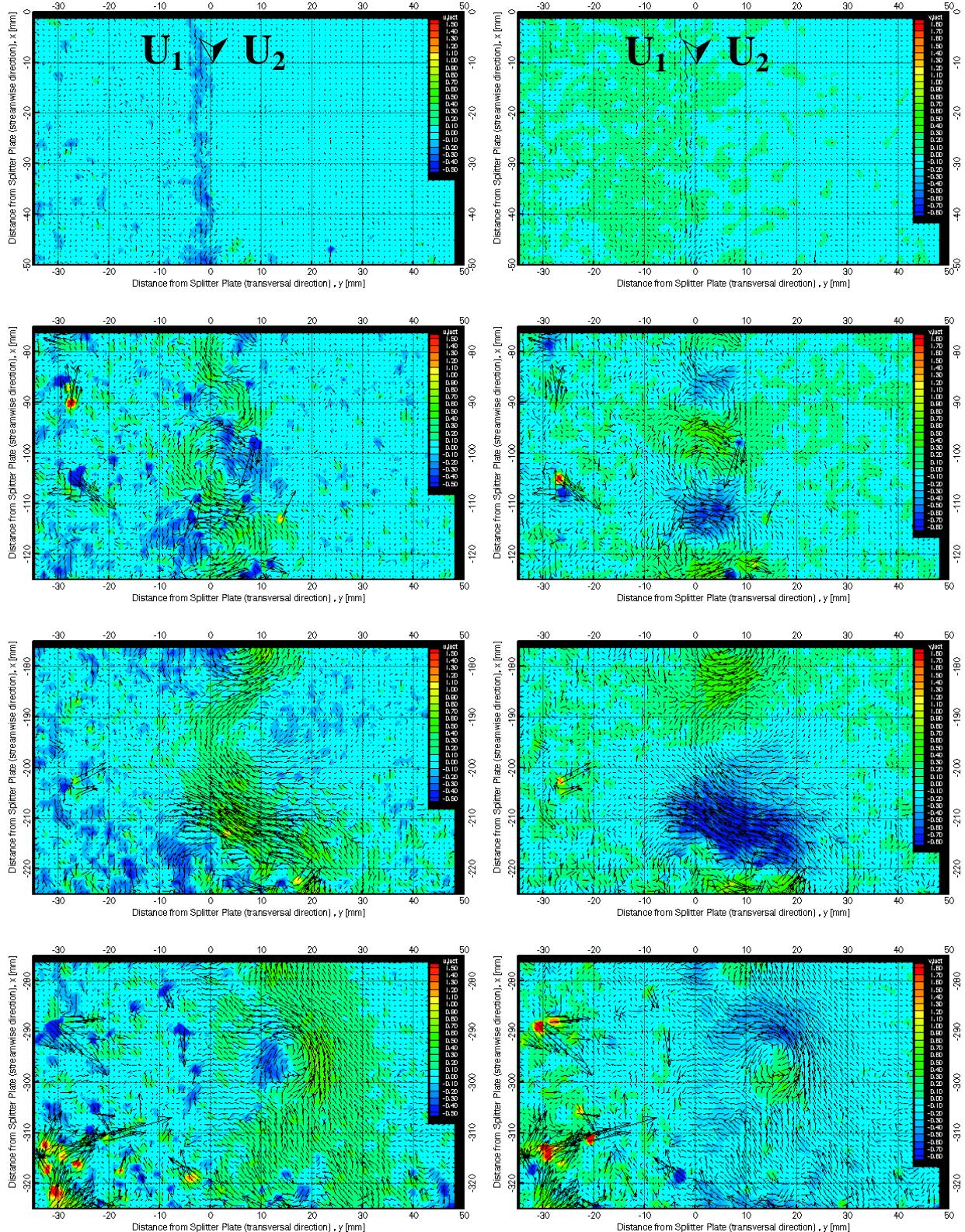


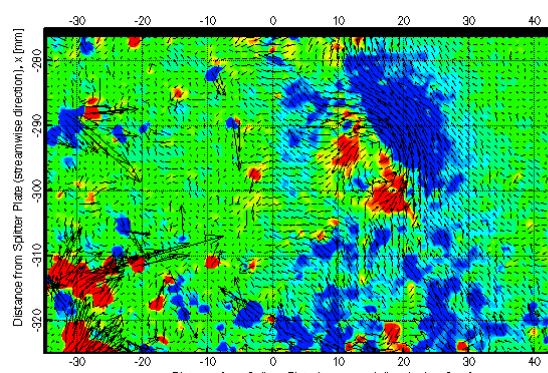
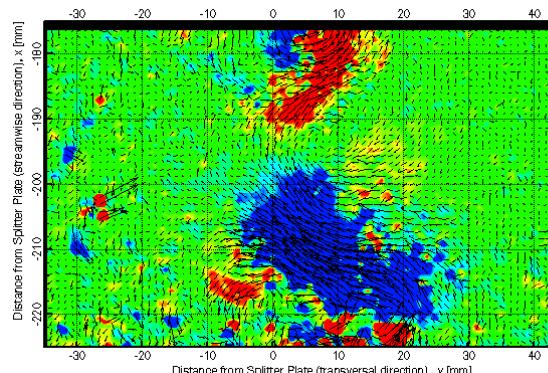
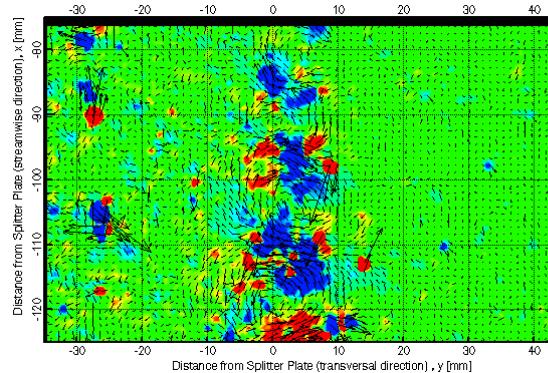
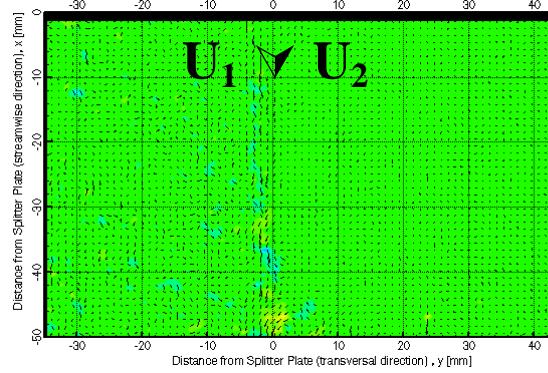
LEFT

u' streamwise fluct. comp.
[-0.5,-0.4, ... +1.5] m/s

RIGHT

v' transversal fluct. comp.
[-0.8, -0.7, ... +1.8] m/s

plotted with (u', v') fluctuating velocity vectors

LEFT **$u'v'$ fluctuating components****[$-0.050, -0.045, \dots +0.050$] m^2/s^2** plotted with (u', v') fluctuating velocity vectors**RIGHT** **Ω_z vorticity****[$-25, -22.5, \dots +25$] $1/s$** 