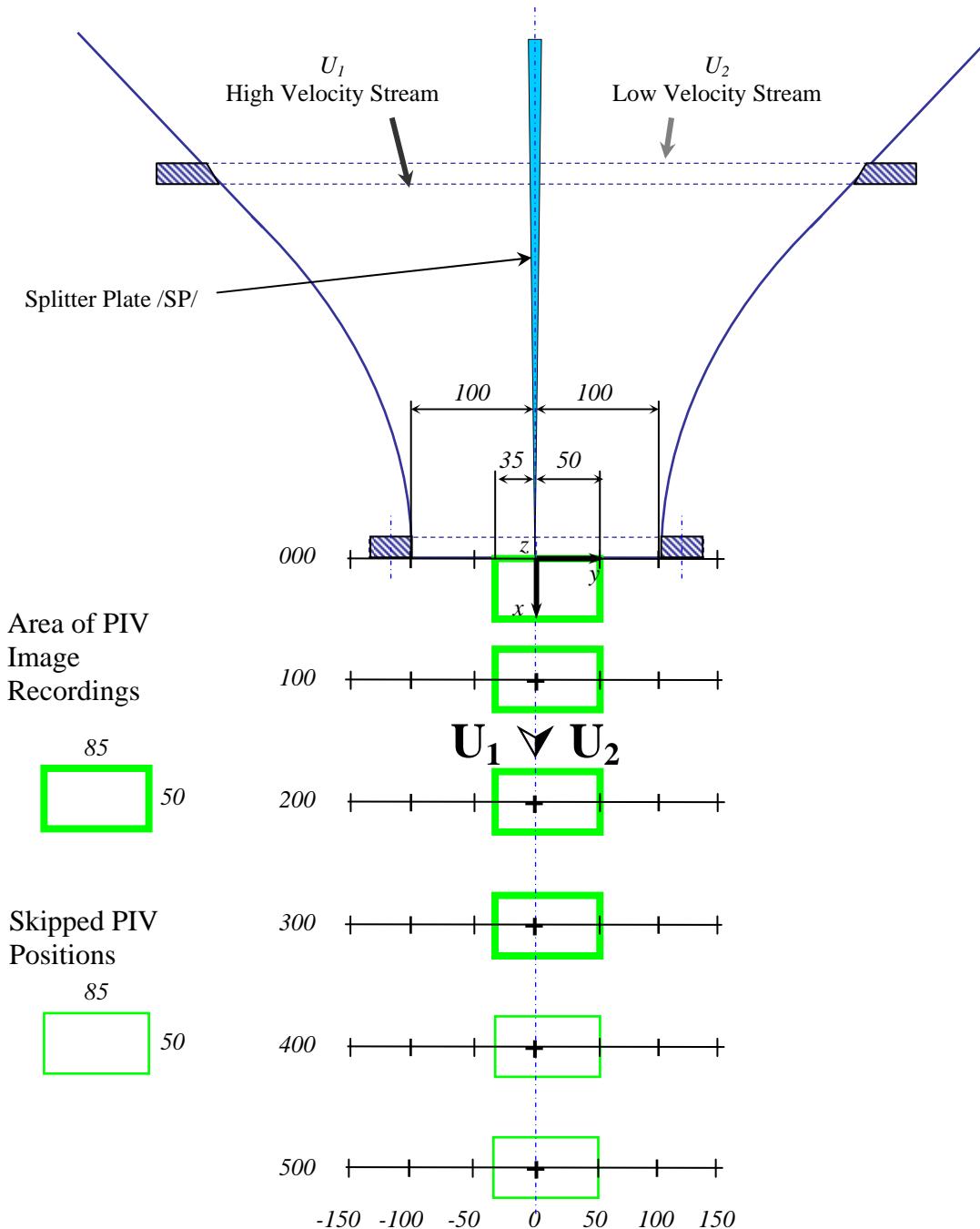


SINGLE PHASE FLOW Particle Image Velocimetry RESULTS

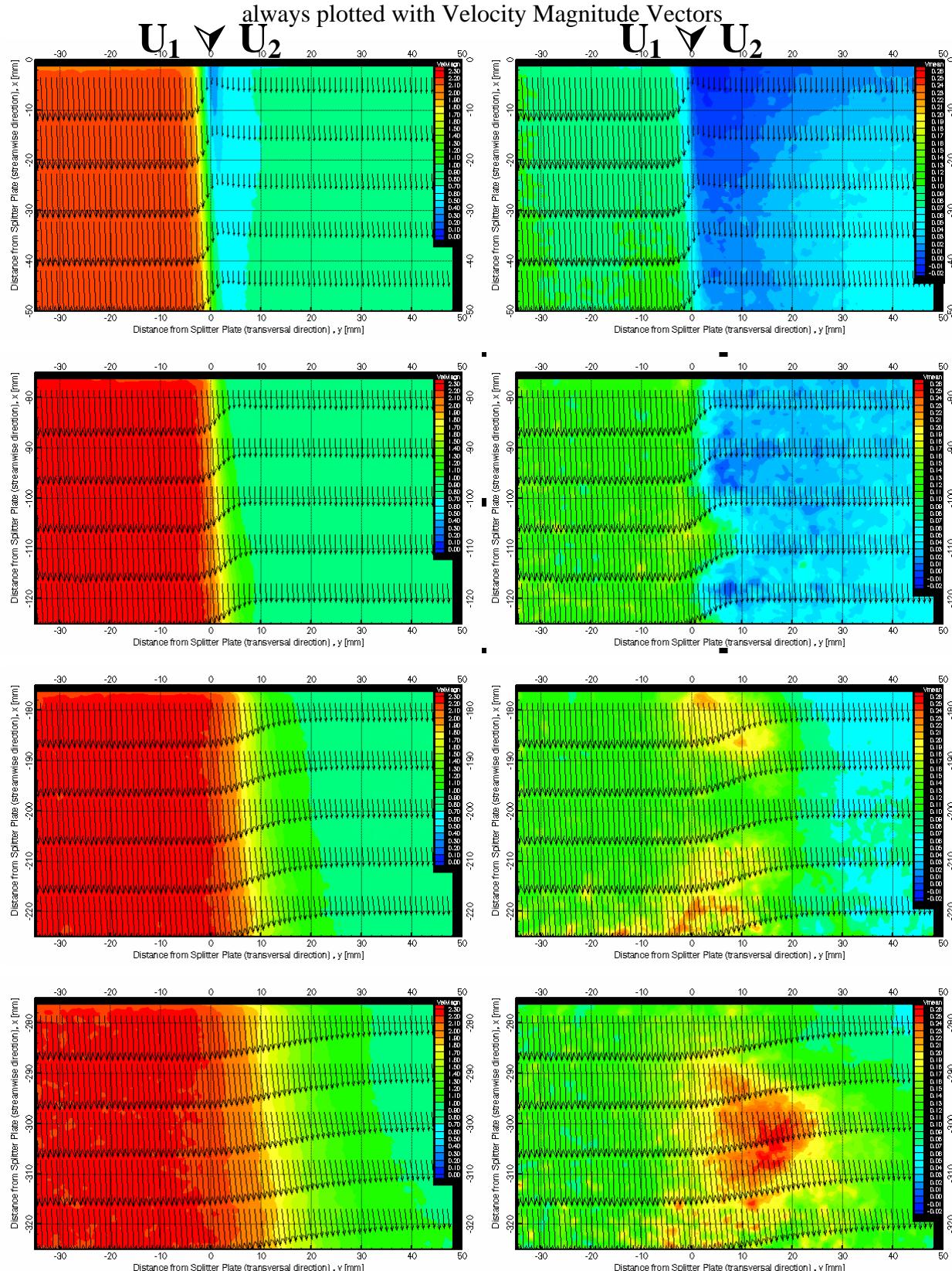
100 images at 4 positions for 2 velocity ratios ($100 \times 4 \times 2 = 800$)

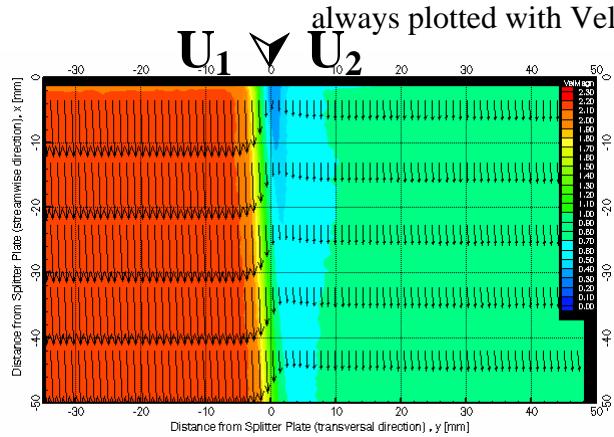
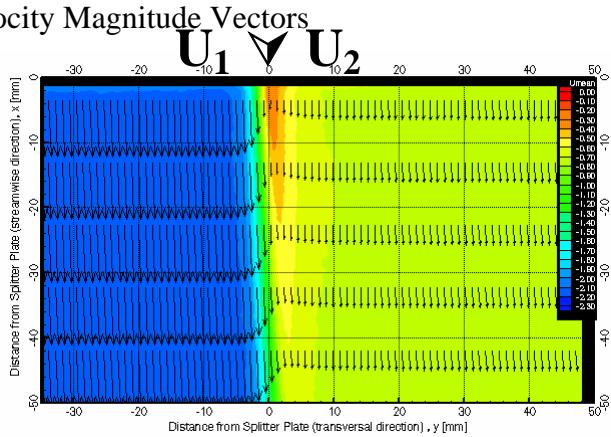
Processing: u' , v' , U_{mean} , V_{mean} , RMS, T.I., Ω_z ,

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

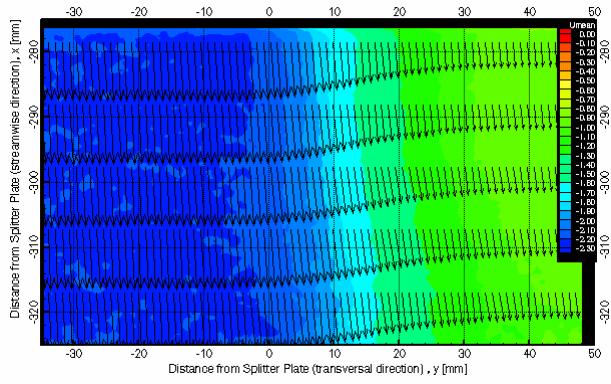
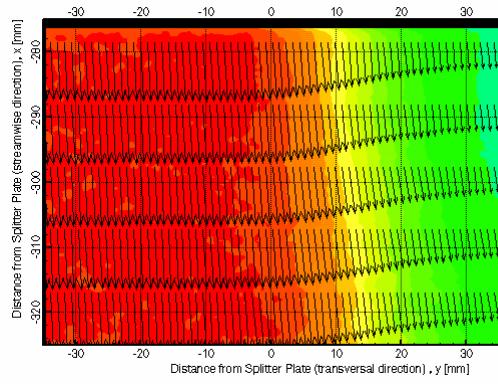
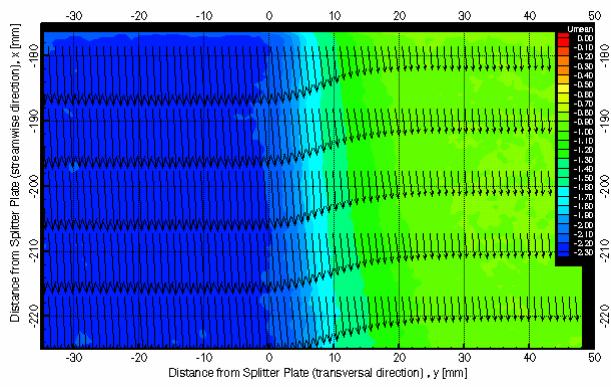
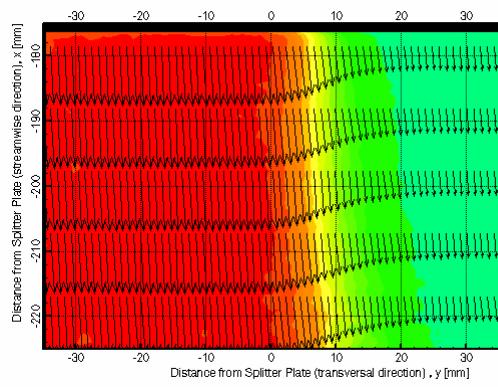
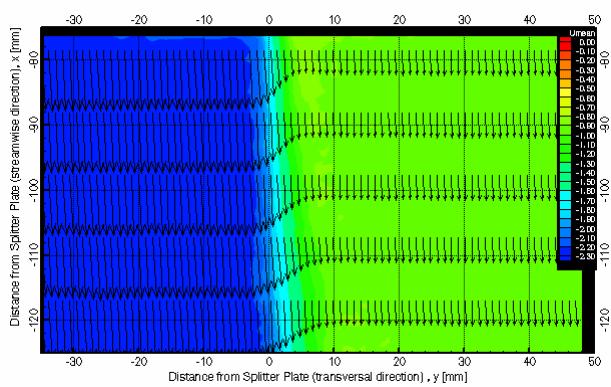
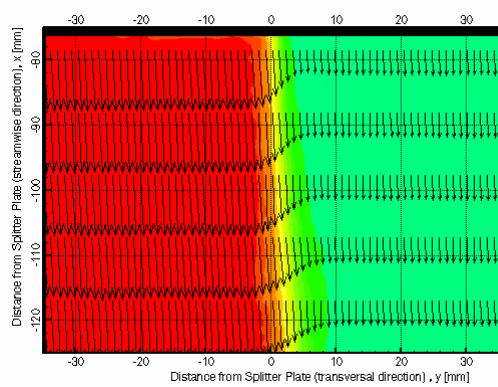


Test Section and Measurement Positions
dimensions in [mm]

LEFT**Velocity Magnitude****[0, 0.1, ... 2.3] m/s****RIGHT** **V_{mean} / y transversal /****[-0.02, -0.01, ... 0.26] m/s**

LEFT**Velocity Magnitude****[0, 0.1, ...+2.3] m/s****RIGHT** **U_{mean} / x streamwise /****[-2.3, -2.2, ... 0] m/s**

always plotted with Velocity Magnitude Vectors

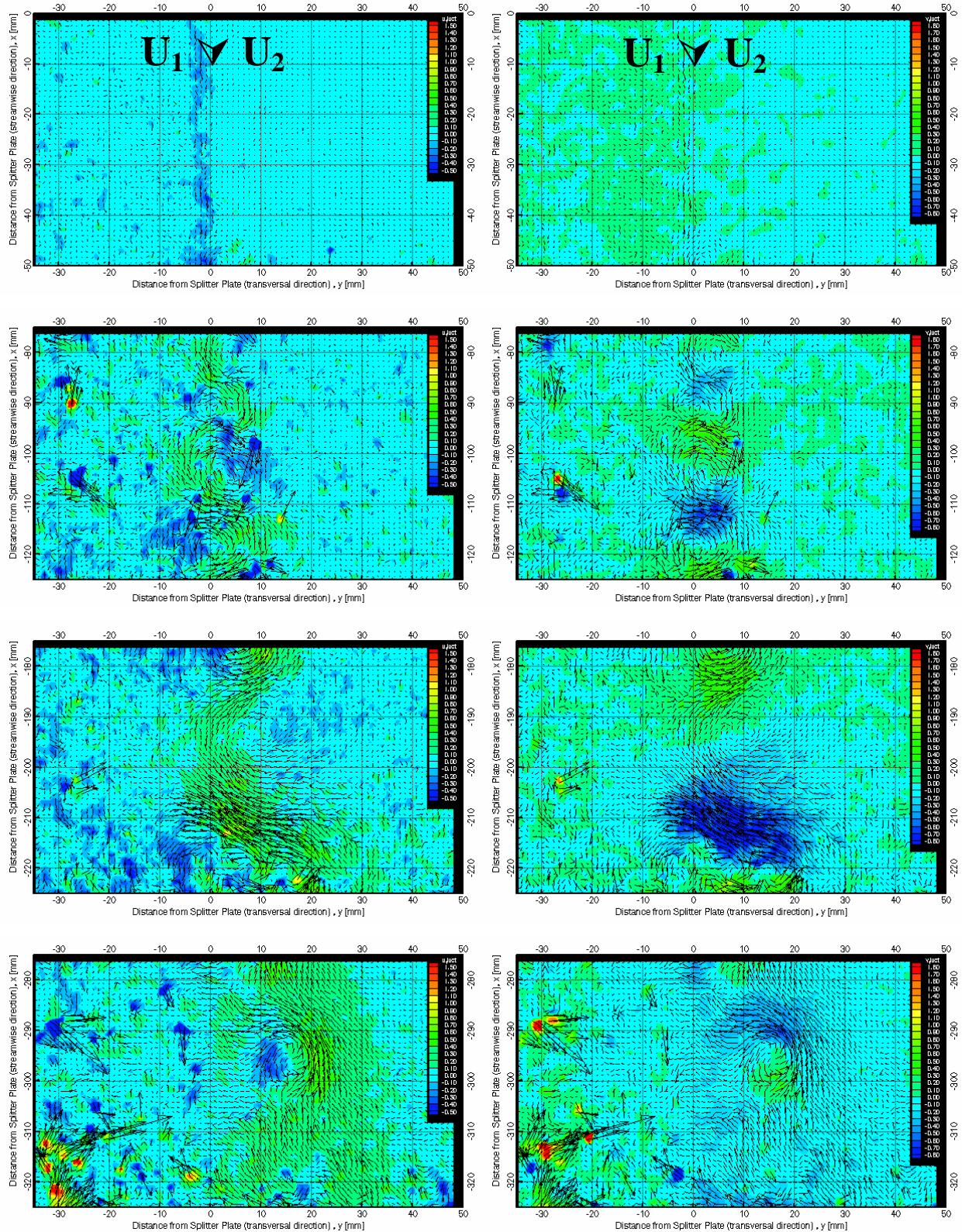


LEFT

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

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

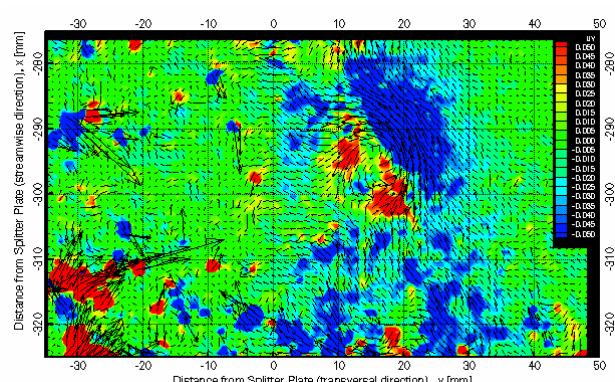
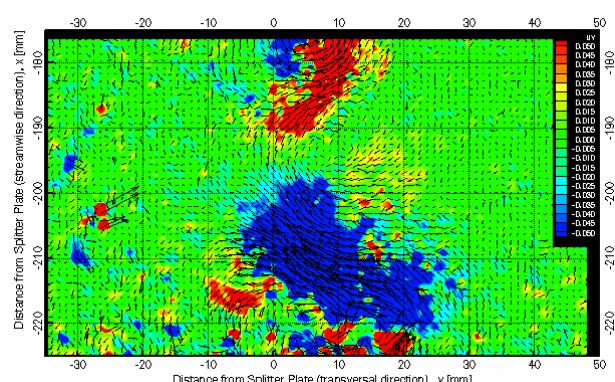
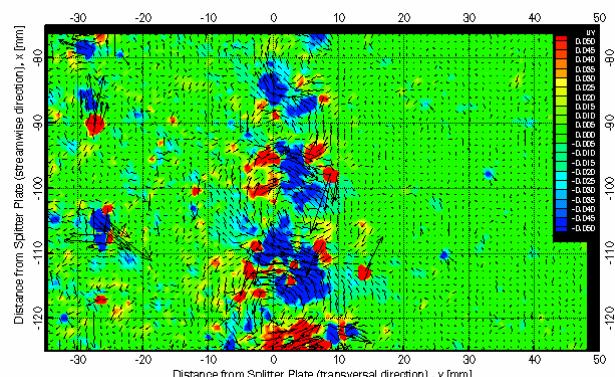
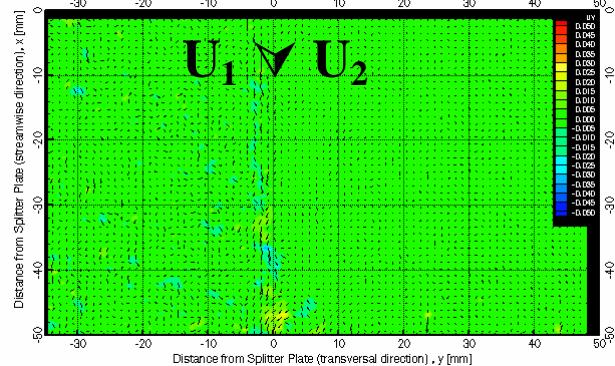
v' transversal fluct. comp.
[-0.8, -0.7, ... +1.8] m/s



LEFT

$u'v'$ fluctuating components
[-0.050, -0.045, ... +0.050] m^2/s^2

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

**RIGHT**

Ω_z vorticity
[-25, -22.5 ... +25] $1/\text{s}$

