### Theory





# Where is the neutrino? (10 points)

### Part A. ATLAS Detector Physics (4.0 points)

<b>A.1</b> (0.5 pt)
r =
<b>A.2</b> (0.5 pt)
p =
<b>A.3</b> (1.0 pt)
$\xi = n = k =$
<b>A.4</b> (1.0 pt)
$\alpha =$
<b>A.5</b> (0.5 pt)
$\Delta E =$
<b>A.6</b> (0.5 pt)
$\omega(t) =$

#### Part B. Finding the neutrino (6.0 points)

<b>B.1</b> (1.5 pt)		
$m_{W}^{2} =$		
<b>B.2</b> (1.5 pt)		
$p_z^{\nu} =$	or	$p_z^{\nu} =$
<b>B.3</b> (1.0 pt)		
$m_{\rm t} =$	or	$m_{\rm t} =$

## Theory





**B.4** (1.0 pt)

Most likely candidate:

**B.5** (1.0 pt)

d =