\[ \sqrt{s} = 7 \text{ TeV} \quad \int L \, dt = 4.7 \text{ fb}^{-1} \]

**ATLAS**

**Validation Region VR3**

![Graph showing data and theoretical predictions for SUSY models](Graph)

- **Data 2011**
- **Total SM**
- **Reduc. bkgd**
- **WZ**
- **ZZ**
- **t\bar{t} V**
- **SUSY ref. point 1**
- **SUSY ref. point 2**

**Legend**

- Black solid line: Data 2011
- Red solid line: Total SM
- Orange shaded area: Reduced background
- Blue shaded area: WZ process
- Green shaded area: ZZ process
- Darker blue area: t\bar{t} V process
- Dashed black line: SUSY ref. point 1
- Dotted purple line: SUSY ref. point 2

**Axes**

- **Y-axis:** Events
- **X-axis:** \( E_T^{e,n} \) 3rd leading lepton [GeV]

**Main Points**

- The graph compares the observed data with the predictions from different theoretical models.
- The validation region VR3 is highlighted, indicating the specific region of interest for SUSY studies.
- The data point at 7 TeV and 4.7 fb\(^{-1}\) is crucial for the precision of the measurements.

**Conclusion**

The graph effectively visualizes the comparison between experimental data and theoretical predictions, highlighting the regions where the data deviates from the standard model predictions and the influence of SUSY models.