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## Using Particle Image Velocimetry (PIV) to determine velocities of TIDs over South Africa

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**Abstract content** (Max 300 words) **Formatting & Special chars**

PIV is a method used to determine displacement of tracer particles in a flowing fluid. This is done by correlating sub-images (interrogation windows) of images of the fluid successive times. The PIV method was applied to total electron content maps within 20-35 degree south and 15-35 degrees east. Results generated by this method for medium and large scale traveling ionospheric disturbance will be discussed.

**Apply to be considered for a student award (Yes / No)?**

YES

**Level for award (Hons, MSc, PhD, N/A)?**

MSc

**Main supervisor (name and email) and his / her institution**

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**Would you like to submit a short paper for the Conference Proceedings (Yes / No)?**

NO

**Please indicate whether this abstract may be published online (Yes / No)**

YES

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