

2021 Winton (G) Award - Dr Julia E. Stawarz

Full Citation

The 2021 Winton Geophysics Award is awarded to Dr Julia E. Stawarz. As an undergraduate, Dr Stawarz achieved the unusual feat of publishing three first author papers on solar wind turbulence, and has subsequently followed this with continued exceptional research on turbulence in space plasmas.

During her graduate studies Dr Stawarz made world-leading contributions to the physics of kinetic plasma turbulence, and also addressed its role in magnetic reconnection in the Earth's magnetosphere. Not only is Dr Stawarz an excellent theorist, she is also extremely talented in the analysis of space plasma data.

With this combination of expertise and skills, she continues to demonstrate the links between turbulence and magnetic reconnection, unifying two fundamental areas of space plasma physics, with a series of authoritative first author papers. In so doing, Dr Stawarz's research has made invaluable contributions to two of NASA's most exciting flagship missions, the Magnetospheric Multiscale mission and the Parker Solar Probe.

For these reasons Dr Julia E. Stawarz is awarded the RAS 2021 Geophysics Winton Award.

Short Citation

The 2021 Winton Geophysics Award is awarded to Dr Julia E. Stawarz. As both an excellent theorist and talented in the analysis of space plasma data, Dr Stawarz has demonstrated the links between turbulence and magnetic reconnection, unifying two fundamental areas of space plasma physics. For these reasons Dr Julia E. Stawarz is awarded the RAS 2021 Geophysics Winton Award.