

Chapman Medal 2021 - Professor Ineke De Moortel

Full citation

The 2021 RAS Chapman Medal is awarded to Professor Ineke De Moortel for her seminal work on the nature of waves in the solar atmosphere. Professor De Moortel's unique contributions to the topic of coronal waves stand out from the field, resting on her combination of both theoretical and observational expertise. Her work has bridged the gap between idealised MHD models and observations, developing models realistic enough to capture the complexity of coronal phenomena and yet still allow the meaningful interpretation of observations.

Using forward modelling, she has been able to link theoretical understanding of coronal oscillations to their observable signatures and reveal their fundamental properties. Professor De Moortel's research has made important contributions towards quantifying the role of waves in heating the solar corona and shown the power of coronal semiology as a diagnostic tool to deduce coronal plasma properties that cannot otherwise be measured.

For these reasons Professor Ineke De Moortel is awarded the Chapman Medal.

Short citation

The 2021 RAS Chapman Medal is awarded to Professor Ineke De Moortel for her seminal work on the nature of waves in the solar atmosphere. Professor De Moortel's unique contributions to the topic of coronal waves stand out from the field, resting on her rare combination of both theoretical and observational expertise. Her work has bridged the gap between idealised MHD models and observations, revealing the fundamental properties of coronal oscillations, quantifying their role in heating the solar corona and demonstrating their power as a diagnostic tool.

For these reasons Professor Ineke De Moortel is awarded the Chapman Medal.