

## Where are the Roots of the Fast Solar Wind?

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A few million tonnes of charged particles leave the Sun every second. This continuous stream of particles - the solar wind - leaks from the Sun's inner atmosphere, escaping its gravity. How is the solar wind accelerated to hundreds of km/s, together with the chain of heating processes that generate and sustain the Sun's hot corona has so far defied a quantitative understanding, despite the multitude of efforts spanning the last half century. In our work, we analyse data acquired with the SUMER spectrograph and the EIT imager on SoHO in coronal holes, being particularly interested to find the fast solar wind origins as low as possible in the solar atmosphere. Our results indicate that we have not seen the fast solar wind starting as a steady outflow in the transition region. Instead, we see bursts of short time brightenings, possibly representing bi-directional jets (explosive events) of different scales, which, because of the open magnetic field structure, could pump plasma into the corona.