

Ann. Geophys. Discuss., author comment AC5 https://doi.org/10.5194/angeo-2022-2-AC5, 2022 © Author(s) 2022. This work is distributed under the Creative Commons Attribution 4.0 License.

Reply on CC1

Krzysztof Stasiewicz and Zbigniew Kłos

Author comment on "Fine structure and motion of the bow shock and particle energisation mechanisms inferred from Magnetospheric Multiscale (MMS) observations" by Krzysztof Stasiewicz and Zbigniew Kłos, Ann. Geophys. Discuss., https://doi.org/10.5194/angeo-2022-2-AC5, 2022

Thank you very much for this opinion. Indeed, the stochastic resonant acceleration (SRA) presented in our paper is the first physically grounded mechanism that explains the origin of secondary perpendicular beams observed at the Earth's bow shock.