돌곡
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Developm mentofa 3 - printed plas ma camera with a 360 field of view Gwendal Henarf-Laboratoire de Physique des Piasmas


Needforfastand 3 measurements ofthe electrons $\&$ ions in LEO in range $0-30$ ke $V$ with a compactinstrument

3DCAM: Anign resolution 3D cameraforions \& electrons
Tobeflown in 2026 on the $E S A S_{\text {pace }} S_{\text {Safety }}$ Porgram demonstrator

Instaneous 3 D field of view, $360^{\circ} \times 90^{\circ}$
$16 \mathrm{~cm} \times 10 \mathrm{~cm}$ : below 4 U small sat standard
4. $10^{-4} c * m^{-2}$.str.eV $/ e V$ Geometric factor

Up to $24_{\mathrm{k}} \mathrm{V}$ max energy for ions and
electrons
Manufacturing using stereolithography
Blurred for IP reasons


64 individuel pixels, $22.5^{\circ}$
seperation, total GF > $2.10^{-1} c * m^{-2}$

