

Abstract Submitted  
for the APR21 Meeting of  
The American Physical Society

**The limit  $\xi \rightarrow 0$  of the GPD  $\tilde{E}$ .**<sup>1</sup> PHILIP VELIE, Univ of Virginia, SIMONETTA LIUTI, University of Virginia, FEMTONET COLLABORATION — The GPD  $\tilde{E}$  integrates to the pseudoscalar form factor of the nucleon,  $g_P$  which, due to the spontaneously broken chiral symmetry, is dominated by the contribution of a pion pole at low momentum transfer squared,  $t$ . The GPD  $\tilde{E}$ , allow us, therefore, to study the pseudoscalar content of the nucleon at the partonic level. In particular, we discuss the limit  $\xi \rightarrow 0$  of the skewness parameter.

<sup>1</sup>This work was funded by DOE grant DE-SC0016286 and SURA grant C2019-FEMT-002-04, and at the (virtual) subsequent effort (Femtonet) at UVA during Summer and Fall 2020, SURA Grant C2020-FEMT-006-05

Philip Velie  
Univ of Virginia

Date submitted: 10 Jan 2021

Electronic form version 1.4