

# My Scientific Career Path



Arthur Bolz, DESY Fellow Meeting, March 25

# My Proudest Plot

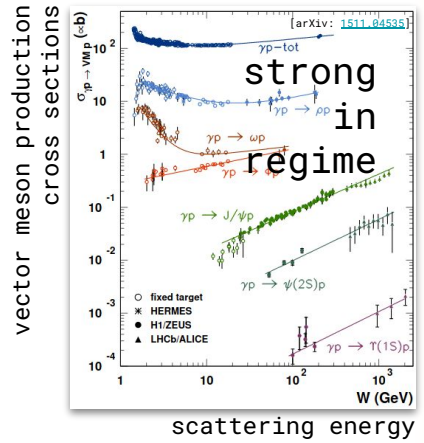
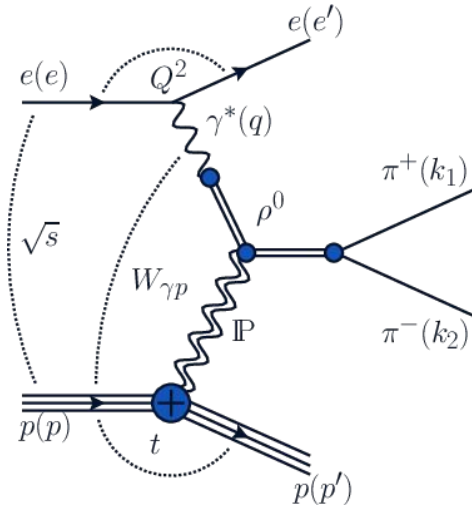
and its origin:



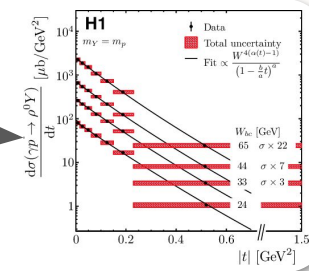
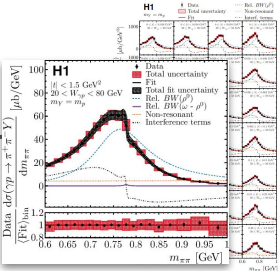
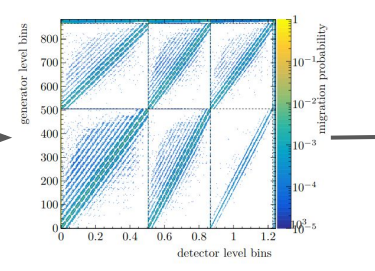
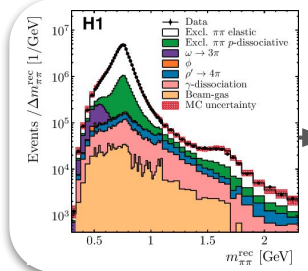
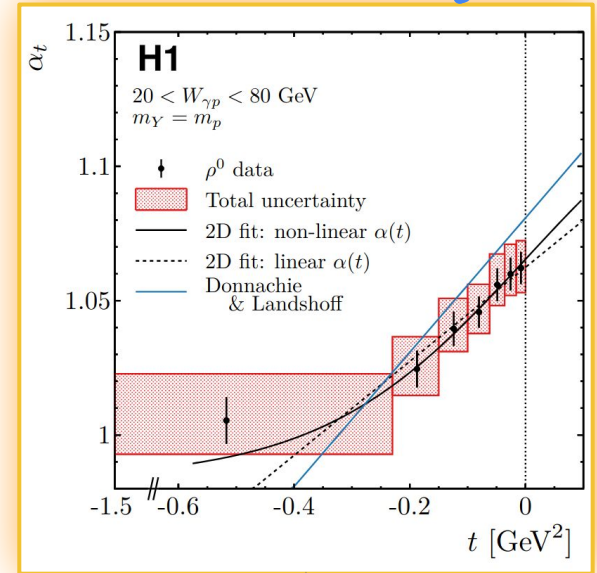
## $\pi^+\pi^-$ photoproduction in HERA

- physics: study interaction soft

⇒ "Pomeron"



- data analysis: unfolding → 3D cross-sections → parametrization →  $\alpha_t(t)$



[Eur.Phys.J.C 80 (2020) 12, 1189  
arXiv: [2005.14471](https://arxiv.org/abs/2005.14471) [hep-ex]]

My Thanks to H1 Collaboration,  
André Schöning, Stefan Schmitt, ...!

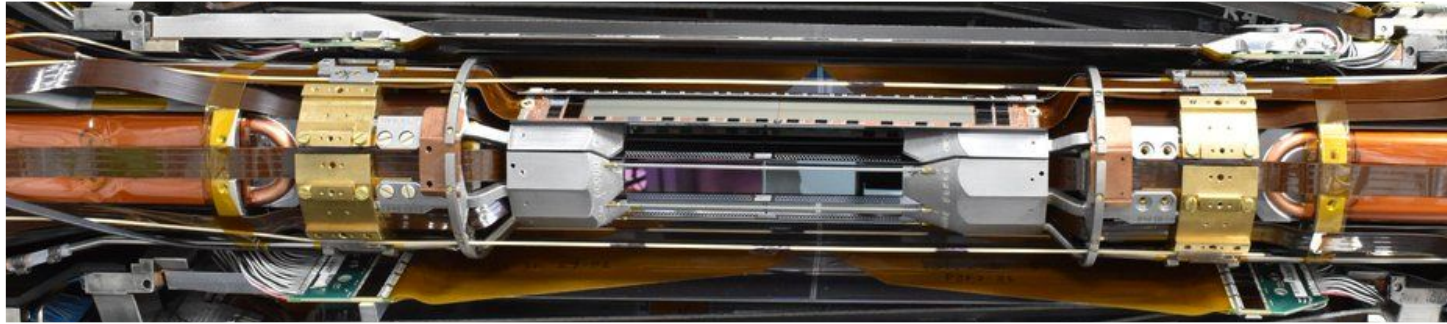
# My Most Despised Plot

I don't wanna talk about it ...



... or look at it  
... or think about it

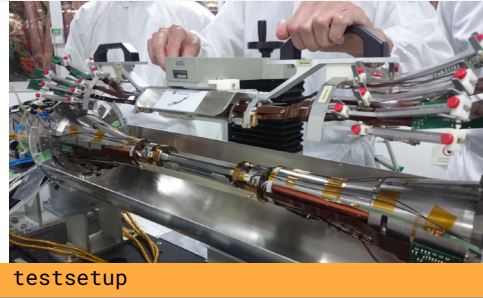
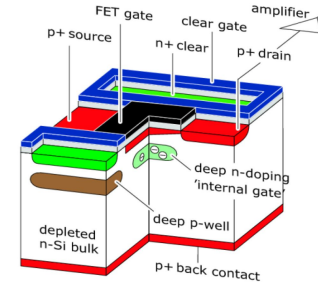
# My Current Project: Belle II PIXEL Vertex Detector



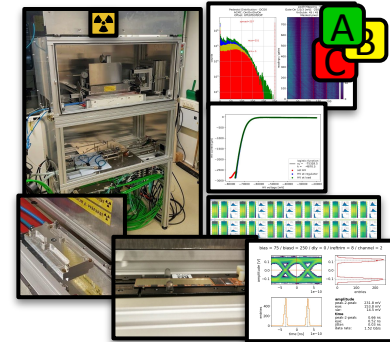
Hot topic: Preparations for PXD 2022 Update

- Second, completed PXD to be installed in 2022
- Module production ongoing across GER w/ module testing at DESY
- Preparations for "Half-Shell" tests in Hall-West

DEPFET pixels



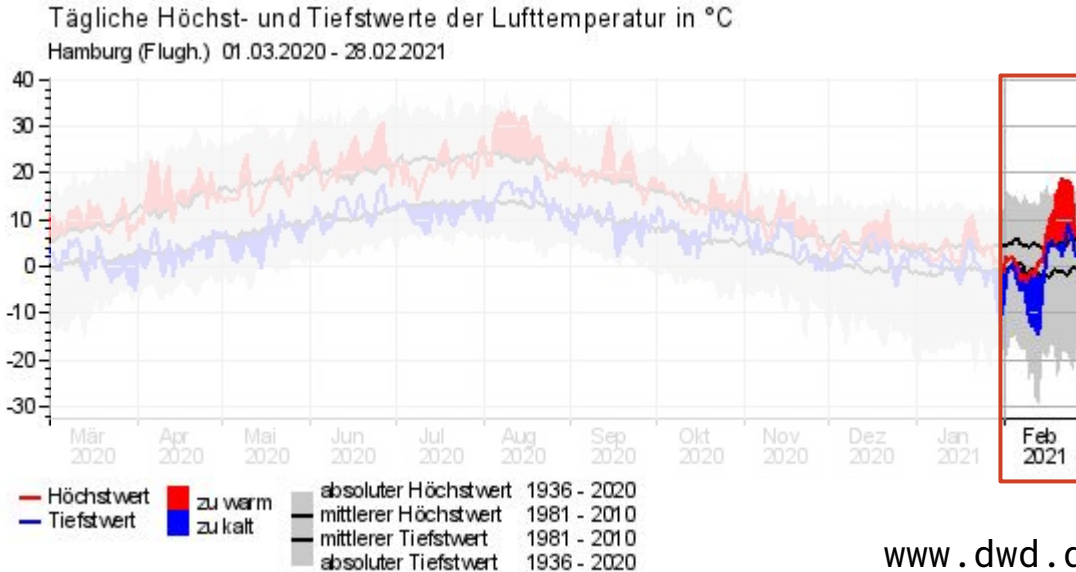
2018 testsetup



# A Plot Worth Thinking About

## Global heating vs local weather

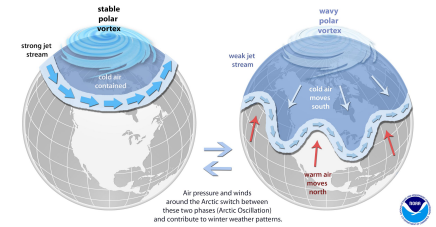
- Was last winter climate change or chance?
- Yet another expression of new volatile “normal”?
- Either way: many surprises ahead! With serious consequences!



www.dwd.de

## The Science Behind the Polar Vortex

The polar vortex is a large area of low pressure and cold air surrounding the Earth's North and South poles. The term vortex refers to the counterclockwise flow of air that helps keep the colder air close to the poles (left globe). Often during winter in the Northern Hemisphere, the polar vortex will become less stable and expand, sending cold Arctic air southward over the United States with the jet stream (right globe). The polar vortex is nothing new — in fact, it's thought that the term first appeared in an 1853 issue of *Littell's Living Age*.



where to invest?



Texas power crisis

