Novel combined results in Ringwald measurements

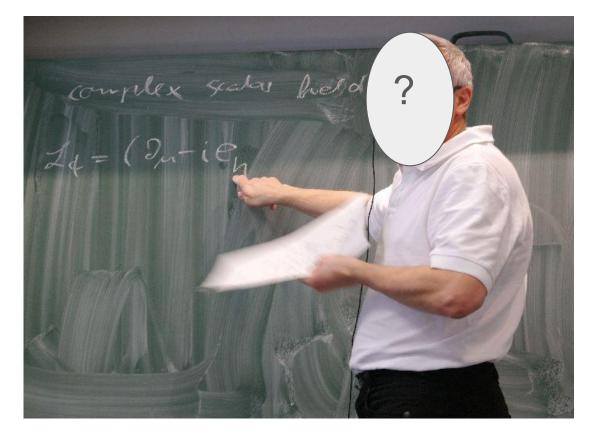
DESY THEORY WORKSHOP & Ringwald fest 2024

Introduction & the data-set

- Today's presentation on measurements of the elusive Ringwald particle, more often found at sea than on land!
- To find the specimen, help of the audience will be appreciated

- Data collected in 2012-2015 during my time as first postdoc at the ALPS-II experiment (and the first postdoc that ALPS-II had!)
- Data statistically combined with records from independent trials:

Sarah Andreas & Paola Arias Reyes



Rough measurement of the expected cross-section and colors, for other measurements of next slides

Stomach

- Specimen is known to have a very resistant stomach
- Was seen able to digest
 DESY canteen food on a
 regular and decade-lasting
 time-span
- Particularly extreme example of February 2013: The DESY canteen "anti-tank gun"



Feet

- Very skilled in certain task:
- Porsche owners in proximity of DESY measured to be very annoyed
- Specimen overtakes Porsches routinely at red lights using an electric smart
- Licence plate number suspected to be PI-ON 315



Heart

- Heart `lost' on a sailing boat in the Elbe river, seen routinely to be searched by specimen arriving on his electric smart
- Rumored to have resisted several lucrative proposed resettlements in renowned places over the fear to lose access to a sailing boat!
- One of the boats on this picture belongs to specimen



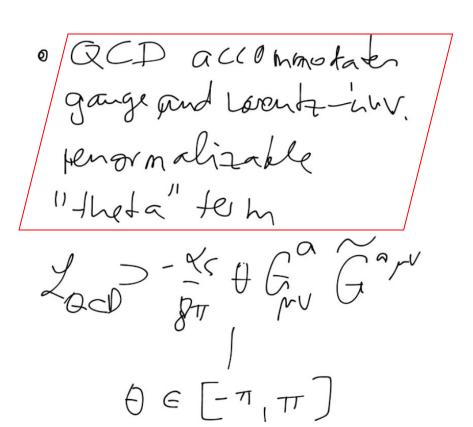
Hand

- Prefers digital communication (usually seen with phone or ipad) but insists on writing with hands!
- Attracts easily attention of fellow researchers



Hand II

- Prefers digital communication but insists on writing with hands
- Results in sometimes illegible statements (unless one already knows what he's talking about ;-))
- seems not to negatively impact collaboration with other people of his kind (see next slide!)



Social behaviour I

 Finds comfort around "experimentalists" and "theorists"

 Effective in convincing them in following his ideas (despite the hand-writing...) cf also the other talks in this session



Social behaviour II

- Found often in sunny places
- Relation to something called the `axion': example: Axion workshop 2010



Social behaviour III - measurement in Andes/Chile

- Part of a hiking company that ventured to the "Nieves Negras" Glacier in 2017
- Involved crossing of an inconspicuous little river



Social behaviour III - measurement in Andes/Chile

- On the way back the small little river had turned into an appreciable stream!
- Eventually, the condensation of people assembled in a chain in their underwear (sic!) enabled the safe return of everyone
- Ringwald particle suspected participant of this chain (no picture available...)



Only picture from hot springs after the hike!

Social behaviour III - measurement in Andes/Chile



Citizen science

- Please have a look around you
- The Ringwald particle could be close
- Notify me in case you make a positive identification!



Summary of results - personally

- Andreas great help to make the transition (but never fully) from particle phenomenology to experimental physics:
- Great vision/dream (or ALPtraum? See r.h.s.) to go for axions/ALPs (now main-stream)
- Allowed to collaborate with many great people/friends in ALPS-II and the theory department

ALPtraum: ALP production in proton beam dump experiments Babette Döbrich (CERN), Joerg Jaeckel (U. Heidelberg, ITP), Felix Kahlhoefer (DESY), Andreas Ringwald (DESY), Kai Schmidt-Hoberg (DESY) Dec 9, 2015 27 pages Published in: JHEP 02 (2016) 018, JHEP 02 (2016) 018 Published: Feb 2, 2016 e-Print: 1512.03069 [hep-ph] DOI: 10.1007/JHEP02(2016)018 Report number: CERN-PH-TH-2015-293, DESY-15-237 View in: ADS Abstract Service, CERN Document Server A pdf reference search - cite 210 citations

My best wishes, Andreas

And follow the ancient wisdom:

"Mit 66 Jahren, da fängt das Leben an!"

