

# XXXI REUNIÓN ANUAL

## División de Partículas y Campos

Sociedad Mexicana de Física

24 - 26 de Mayo, 2017

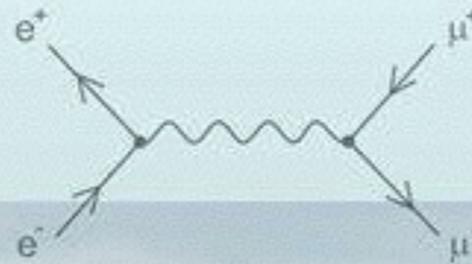
Auditorio José Ádem, Depto de Física  
Centro de Investigación y de Estudios Avanzados  
del Instituto Politécnico Nacional  
Unidad Zacatenco, CDMX

### Invited Talks:

CMS status report, Javier Murillo (Cinvestav-IPN)  
Belle-II status report, Emilie Passemar (Indiana Univ.)  
La física forward y el gluón a  $x$  pequeña, Martin Hentschinski (UDLAP)  
Black holes everywhere, Omar López Cruz (INAOE)  
Loss of information in black hole evaporation?, Sujoy Modak (Colima Univ.)  
ALICE status report, Irais Bautista (Conacyt-BUAP)  
Lepton flavor and CPV, Alex Stuart (Colima Univ.)  
New world leading limit on dark matter search from PICO experiment, Eric Vázquez Jáuregui (IF-UNAM)  
The discovery of gravitational waves, Darío Núñez (ICN-UNAM)  
Higgs physics at one loop in the SM and beyond, Agustín Moyotl (Cinvestav-IPN)  
Política científica en tiempos de Trump, Gerardo Herrera Corral (Cinvestav-IPN)  
Status of Long Baseline Neutrino Experiments at Fermilab, Fernanda Psihas (Indiana Univ.)

### Organizing Committee

Eduard De La Cruz Burelo (Cinvestav-IPN)  
Arturo Fernández Téllez (BUAP)  
Iván Heredia de la Cruz (Cinvestav-IPN, Co-chair)  
Gabriel López Castro (Cinvestav-IPN)  
Pablo Roig Garcés (Cinvestav-IPN, Chair)



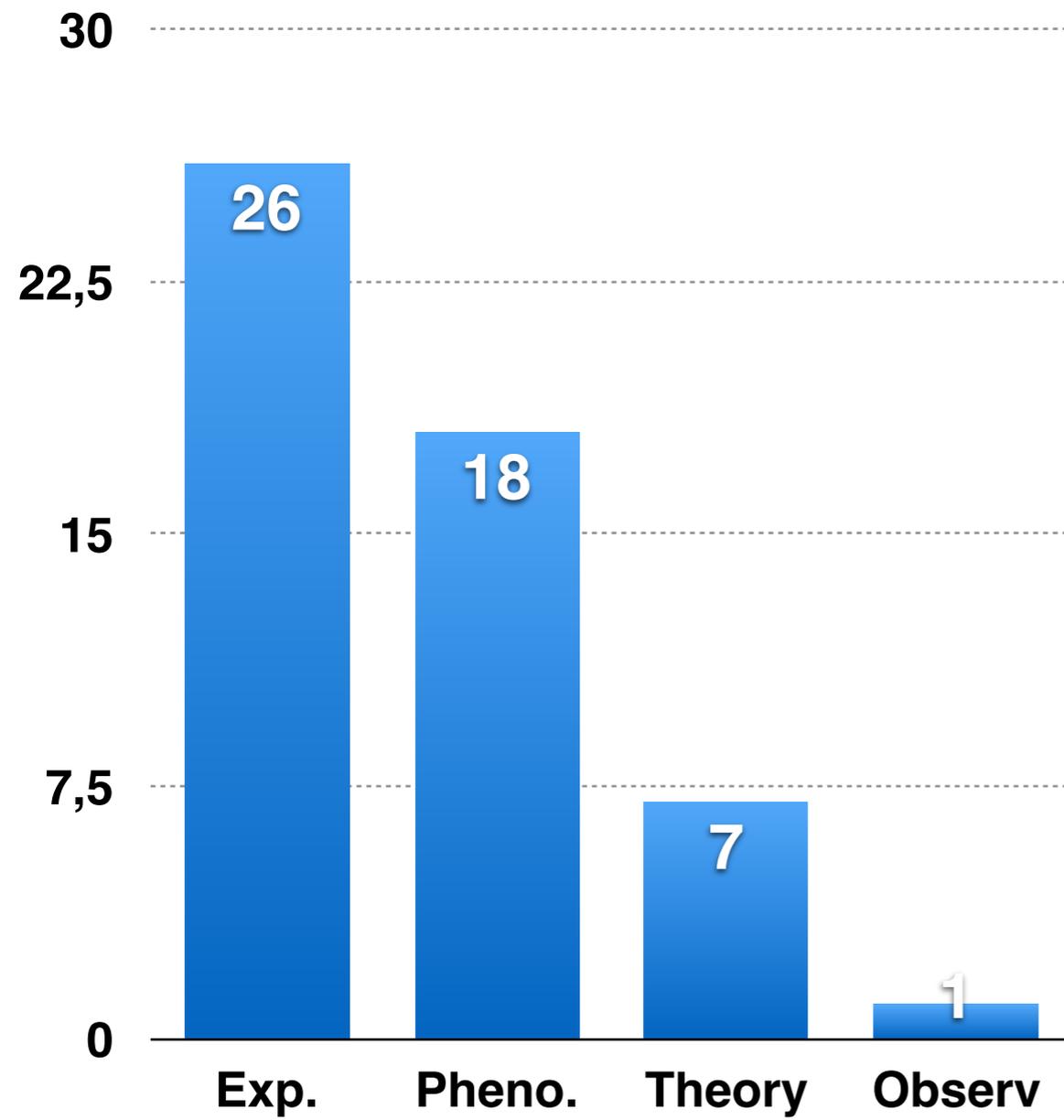
RADPyC:

Short talks and posters  
(mainly) by young  
posdocs students aimed  
to present advances and  
new research results

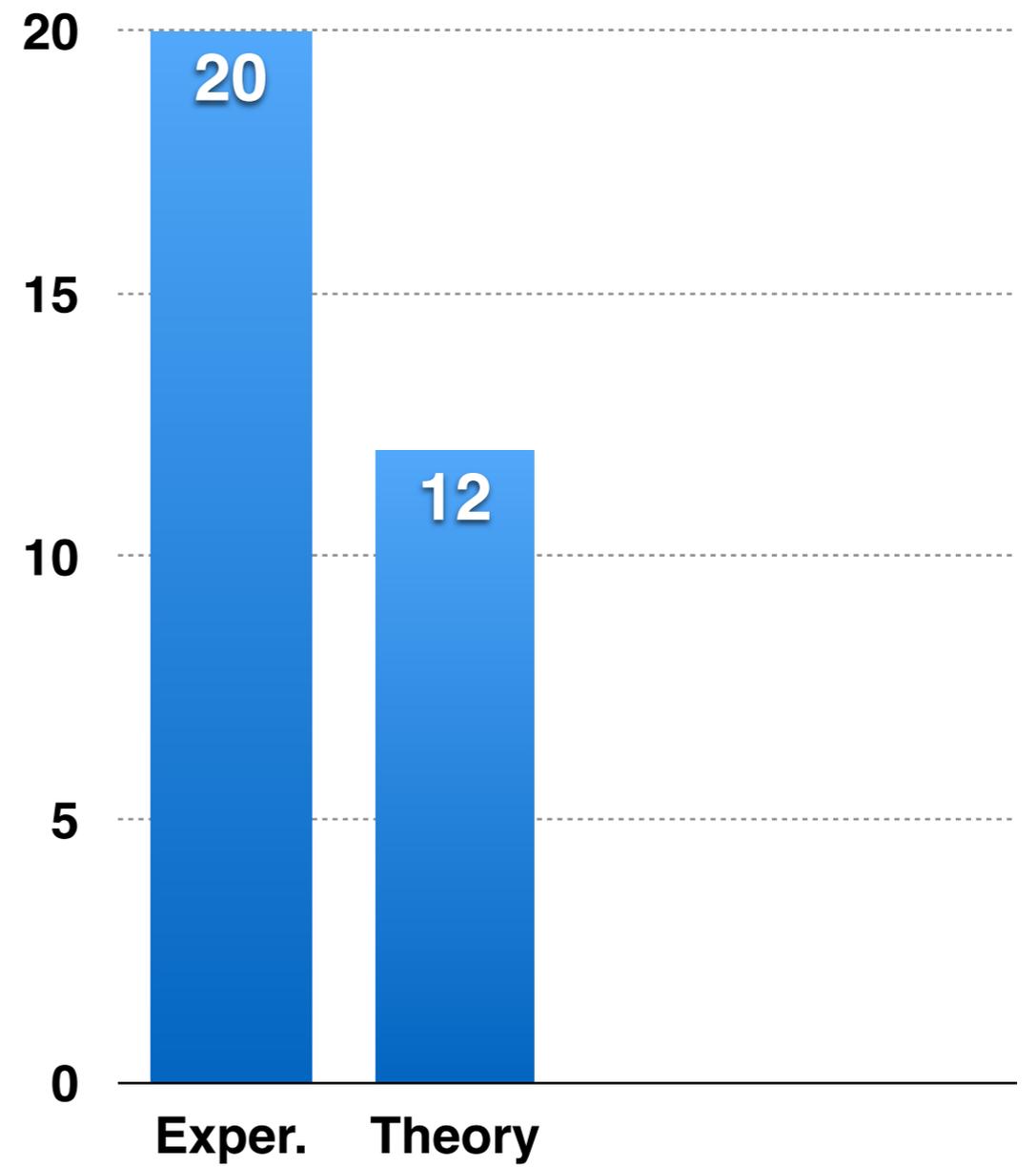
~180 participants (many  
young students)  
52 talks, 32 posters

Full program in english  
program in Indico

### 52 Talks (13 invited)



### Posters



## Main focus of contributions

**Experiments:** ALICE, CMS, Belle II, Miniboone, PICO, NICA,

**Observational:** HAWC, Pierre Auger, JEM-EUSO, Astro (BH)

Instrumentation, Accelerator Physics, detector technologies

**Theory:** Electroweak Phenomenology SM & BSM,  
Hadron Physics, Formal theory developments

Proceedings: Pablo Roig (contact)

# Highlights:

- ▶ Standard Model still in (very) good shape
- ▶ No evidences of new physics (intriguing anomalies)
- ▶ Exclusion of Dark Photons and solution to muon  $g-2$  anomaly (Beam dump, Miniboone)
- ▶ New world record limits on searches of DM particles (PICO)
- ▶ Observation of Strangeness production in proton collisions
- ▶ Still poor interactions of theorists and experimentalists
- ▶ Involvement in new exp projects



## Next activities

- ▶ 2018 *Annual Meeting*: León, Gto (may 2018)
- ▶ *Mexican Workshop on Particles and Fields*: Puerto Vallarta, Jal. October 22-28, 2017
- ▶ *2nd Workshop on QCD challenges From pp to AA*, Puebla, Oct. 31-Nov 3, 2017 (Irais Bautista)
- ▶ *XLVII International Symposium on Multiparticle Dynamics*, Tlaxcala September 11-15, 2017 (A. Ayala)
- ▶ *Mexican Accelerator School*, Guanajuato, ??, (H. Maury)

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Iván Heredia de la Cruz, Gabriel López Castro



Michel, Jorge

Lupita, Elizabeth, Paty, Javier, Daniel