Closing Remarks

In Finil and

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Closing Remarks

FT ISSIBIL

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Many very interesting presentations, not possible to have a complete summary.



Elisabetta Prencipe

Significance < 2 σ within systematic uncertainties

CKM

V_{ub} puzzle still unsolved:

GeV

Entries/(0.04

Investigate

asymmetries

in $B \rightarrow \rho I^{\pm} v$



3







Napolitano HQL 2014



Neutrinos

• But lots of other highlights, too. Too many for all being presented!



GERDA (0νββ)

SOX

Search for sterile neutrinos.





Kaon Physics

- Many Results from NA48/2, NA62, and KLOE (Br(K[±] $\rightarrow \pi^{\pm}\pi^{-}\pi^{-})!$)
- And LHCb now a Kaon player, too!



Carla Marin Benito (LHCb)

• Prospects:

•
$$K_s \rightarrow \mu \mu$$

•
$$K_s \to \pi^0 \mu \mu$$

•
$$K_s \rightarrow 4\ell$$

- ► K⁺ mass
- $\Sigma^+ \rightarrow p \mu \mu$

LFV and Rare Decays

- Many, many investigations.
- So far only slight hints (if you're an optimist) for new physics...
- $B \rightarrow K^* \mu^+ \mu^-$:

Marcin Chrząszcz (LHCb)



- Observables $P'_{4,5} = S_{4,5} / \sqrt{F_L(1 F_L)}$
- Leading form-factor uncertainties cancel.
- In 1 fb^{-1} , LHCb observes a local discreapncy of 3.7 σ in P'_5 .
- Probability that at least one bin varies by this much is 0.5%.

Top Physics

Lot's of measurements done (ATLAS, CMS, but still Tevatron, too!)



• Visit of Oppenheim and its vineyards



Visit of Oppenheim and its

Visit of Oppenheim and its

Rainer Wanke, Heav

Conference Dinner









If you have conference photos you'd like to chair, please do so!
We'll put them on the conference web site.

Proceedings

- Proceedings will be published in PoS as in the last HQL editions.
- Length of proceedings:
 - 20'/25'+5' presentations: 8 pages
 - \ge 30'+5' presentations: 10 pages
- Deadline of proceedings will be October 19th, 2014.
- Proceedings will be refereed by the LOC (*) and should appear in PoS in November.
- At the moment PoS is setting up the web pages, detailed instructions will follow soon and will be put on the HQL 2014 homepage and sent around by mail.

(*) Session conveners are encouraged to help!



International Advisory Committee Meeting on Thursday evening:

Bid of Jonathan Link and Leo Piilonen to host HQL 2016 at the Center of Neutrino Studies at Virginia Tech in Blacksburg/VA.



Virginia Polytechnic Institute and State University (VPI, Virginia Tech)

- Located in Blacksburg in southwest Virginia, USA
- Established in 1872
- Enrollment: 29,000





Excursion and Conference Banquet



Rustic Performance Venue

Mabry Mill



Bid to Host HQL 2016

Excursion and Conference Banquet





WirginiaTech



Proposed date:

- May 22 27, 2016
- Will be validated soon.



Hope, you enjoyed the stay...

FILM

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858 T 818

... and see you again in 2016!