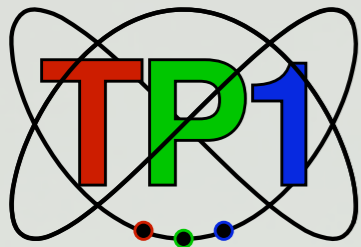


Theory Input



Thomas Mannel, Siegen University



- The Role of the theorists
- „Recruitment“ of Theory Colleagues
- Current Status
- Next Steps / Further Suggestions

Role of theorists

- Give some help to sort out the theoretical input
- Find the balance in cases where strong theoretical opinions exist
- In practical terms:
 - Experimental Section Editors should contact theory colleagues for theoretical guidance
 - Write some paragraphs with theoretical background information, once it is clear what will be put in from the experimental side

„Recruitment“ of Theory Colleagues

- In some respects it was not so easy!
- Many are over-committed and were unable to join
- Some questions arose:
 - How do theorists get credit?
(Solved: Co-Authorship)
 - What precisely is the role of the theorists?
 - ... How much work is finally required?
 - What if there are different opinions ?

Current Status

CKM : Sides	Vera Luth (Vub, Vcb)	
	Christoph Schwanda (Vub, Vcb)	
	Toru Iijima (Vub, Vcb)	
	Kevin Flood (Vts, Vtd)	
	Gambino Paolo (Vcb)	←
	Ligeti Zoltan (Vub)	←
	Tackmann Frank (Vub)	←
	Hurth Tobias (Vts, Vtd)	←
Rare B:Rad+EW peng	Steve Playfer	
	Mikihiko Nakao	
	Hurth Tobias	←
Leptonic Decays	Steve Robertson	
	Youngjoon Kwon	
Hadronic B to charm	Richard Kass	
	Beneke Martin	←
Charmless B decays	Fergus Wilson	
	Beneke Martin	←

CKM : Angles

Yury Kolomensky (alpha)
Tagir Aushev (phi_2)
Owen Long (beta)
Yoshihide Sakai (phi_1)
Fernando Martinez-Vidal (gamma)
Karim Trabelsi (phi_3)
Bigi Ikaros



Baryonic B decays

Roland Waldi
Cheng H.Y.



Mixing/CPT violation/EPR correlations

Bruce Yabsley

Conventional Charmonium

Riccardo Faccini
Pasha Pakhlov
Brambila Nora



Exotic Charmonium

Riccardo Faccini
Steve Olsen
Swanson Eric



Bottomonium

Stephen Sekula
Roberto Mussa
Brambila Nora



D mixing and CPV

Brian Meadows
Bostjan Golob
Bigi Ikaros



Charm meson spectroscopy and decay

Antimo Palano
Jolanta Brodzicka
Fajfer Svjetlana



Charm baryon spectroscopy and decay

Matthew Charles
Roman Mizuk
Fajfer Svjetlana



Tau physics

Mike Roney
Hisaki Hayashii
Pich Toni



Global CKM Fits

Marcella Bona
Gerald Eigen
Ryosuke Itoh
Kou Emi (Benchmark Models)



$+ |D_{M\Phi}| - V(\Phi)$

Still Open from TH side:

QED/ISR	Fabio Anulli Galina Pakhlova
Two photon	Uehara Sadaharu
Y(5S)	Kay Kinoshita
Fragmentation	Fabio Anulli Ralf Seidl
PQ Search	Bruce Yabsley Bill Dunwoodie

$$+ |D_m \phi|^2 - V(\phi)$$

Next Steps / Further Suggestions

- **Fill in the still missing theorists**
- First Step should come from the experimental section editors, who should take the lead:
 - Draft some text to be discussed (also) with the corresponding theorists
 - Define (maybe together with the theorists) which TH input is needed and who is going to draft a text
 - Next meeting: Participating theorists should attend

There has to be a draft to have sth. to talk about