

The B factories have been spectacularly successful  
establishing CKM dynamics as a tested theory --

Why go on?

The success of the LHC Program is the essential task in  
front of us, where we cannot afford a lack of success!

Its goal: to identify the dynamics driving electroweak  
symmetry breaking presumably at the  $O(1 \text{ TeV})$  scale.

Primary task of future heavy flavour programs:  
instrumentalize  $CP$  and rare decays to differentiate  
between TeV scale New Physics models!

Recognized early on -- LHCb!

The generalized 'Nakada Concern':

While we have more promising avenues for exploring fundamental physics than ever,

While we have more technical abilities & tools than ever,

We live in a world with immense political, social, environmental  
... problems and

have to deal with governments with less interest in basic research to a degree that goes well beyond a justified pre-occupation with these problems --

How do we choose our priorities?

Be comprehensive (necessary, yet not necessarily sufficient):

A Super-B factory is also a

• Super-Tau as well as

• Super-Charm factory

of truly unique capabilities

3rd family down-type quark

3rd family down-type lepton

2nd family up-type quark



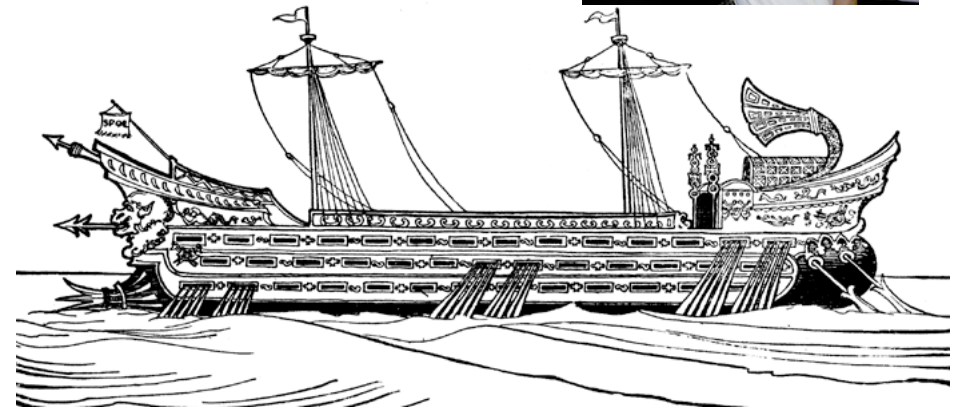
Heavy Flavour Studies -- a Passage between  
Scylla & Charybdis

Shogun\*  
Katsunobu



Consuls

Marcello & Pantaleo



\* with apologies to Yamauchi-san --  
there can be only one shogun

Questions to the LHCb team:

I rest assured that LHCb will do **superb**  $B$ ,  $B_s$ ,  $\Lambda_b$  &  $\Xi_b$  physics

- ❑ How well can you do ~~CP~~ with(out) oscillations in charm?
- ❑ LFV & ~~CP~~ in  $\tau$  decays?

## Questions to the SuperBelle team:

- ❑ How essential is success of **crab crossing**?
- ❑ Is  $L = 4 \times 10^{35}$  **hard upper** bound?
- ❑ **Background** levels, **hermiticity** of detector?

## Questions to the ILC-inspired SuperB team:

- ❑ What are the **essential validation** benchmarks?
- ❑ **Time frame** needed for addressing them?
- ❑ **Time frame** for cost estimate?
- ❑ To which degree **parasitic** to or **synergetic** with ILC?
- ❑ **If synergetic**
  - ❖ in **parallel** or **successively**,
  - ❖ **one** or **two** sites?

## Questions to both Super-B teams:

- ❑ What are your actions/plans for internationalizing?
- ❑ To which degree and on which fora do you talk to & learn from each other?
- ❑ Under which conditions are you willing to join the other project?