

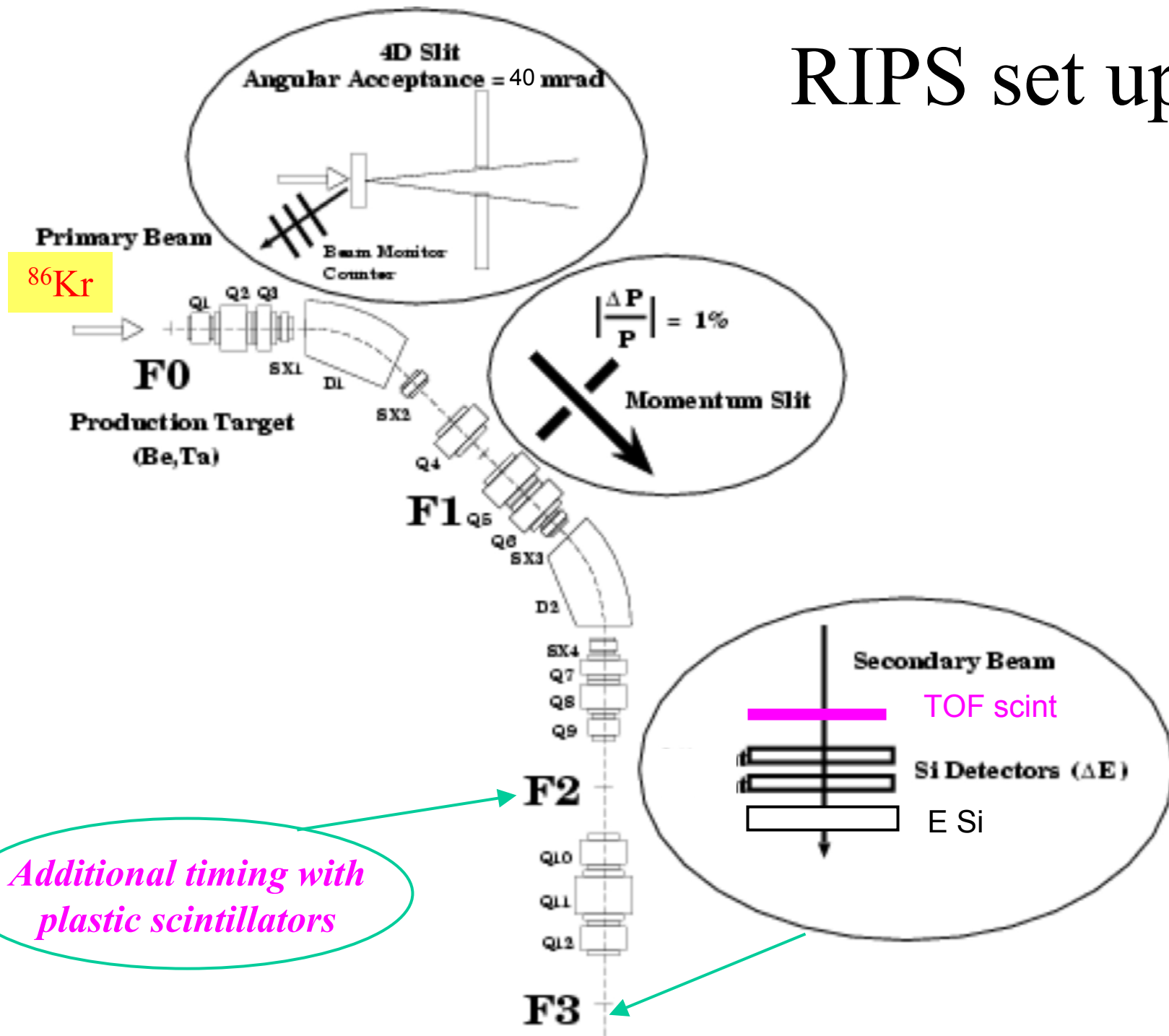
Fragmentation measurements of ^{86}Kr at Riken

June 3-9, 2004; **Betty Tsang** -- spokesperson

US-Japan Collaboration

Michal Mocko	NSCL	Graduate Student
Bill Lynch	NSCL	Professor
Andreas Stolz	NSCL	Visiting Professor
Mark Wallace	NSCL	Graduate Student
Pham Ngoc Dinh	NSCL	Graduate Student
Franck Delaunay	NSCL	Research Associate
SAKURAI Hiroyoshi	Univ. of Tokyo	Associate Professor
MOTOBAYASHI Tohru	RIKEN	Chief Scientist
AOI Nori	RIKEN	Researcher
IWASAKI Hironori	Univ. of Tokyo	Research Associate
OHNISHI Tateo	Univ. of Tokyo	Graduate Student
SUZUKI Daisuke	Univ. of Tokyo	Graduate Student
NAKAO Tarou	Univ. of Tokyo	Graduate Student
SUZUKI Hiroshi	Univ. of Tokyo	Graduate Student
ICHIKAWA Yuichi	Univ. of Tokyo	Graduate Student
SUZUKI Masaru	Univ. of Tokyo	Graduate Student
ONG HooiJin	Univ. of Tokyo	Graduate Student

RIPS set up



Schedule – First 3.5 days

- Debug – takes 1 day
- Scan from $\text{Brho}=1.7\text{-}2.3$ for Be and Ta tgts
- Monitor calibrations:
 - Momota, Okuno – plastic stacks
 - Very linear over a large dynamic range
 - MSU – NaI & BaF
 - NaI good to about 10 enA
 - BaF extend a little further
 - No time to do detail study
- Detail calibrations of Momota and Okuno with plastic scintillator at F2
- Transmission of F2 to F3 is nearly 100% for $Z>10$



500
400
300
200
100

焼酎
ビール
ウメサワー
ウロン茶
クレファン
青りんご
ひれ酒
相模
大山
宮久
満度
船中
司牡丹
八雲
ふん
2000 550 350 350 350 350 750 800 850 700 800 350 350 850 750 900

当店は
消費税外価格
です。
営業時間
PM 11時
ラストオーダー
PM 10:30分
駐輪場
18-19
今月の定休日
月 日()
日 日()
日 日()
日 日()
日 日()
秋底
小笠原
う

焼酎
ビール
ウメサワー
ウロン茶
クレファン
青りんご
ひれ酒
相模
大山
宮久
満度
船中
司牡丹
八雲
ふん
2000 550 350 350 350 350 750 800 850 700 800 350 350 850 750 900

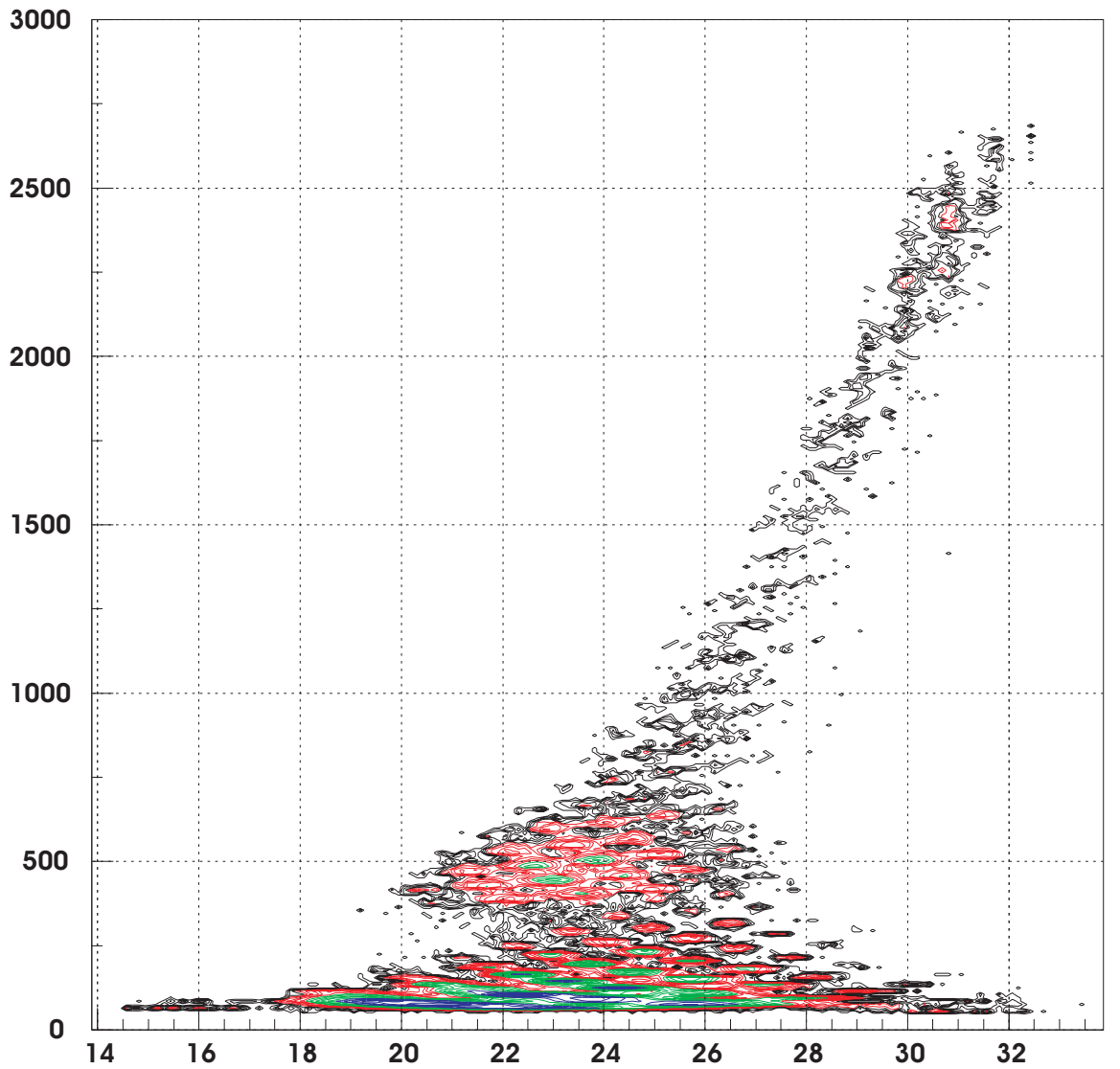
Problems encountered

- Charge states measurements
 - Very close to the predictions of Global
- However spread is larger than predictions so we cannot measure close to charge states especially for Ta targets
- Also charge states mess up the resolutions of fragments

June 7- 9: High intensity measurements of rare isotopes, ^{80}Zn & ^{79}Cu

- Beam intensity – 100 pnA of beam
 - NSCL – 10-16 pnA
- RIPS is relatively free from background radiation compared to A1900.
 - Wedge is not needed
- Run for about 30 hrs with high intensity
 - Probably see ^{80}Zn (8 protons removed) and ^{79}Cu (9 p removed)

2004/06/09 07.41



Blow.(XBlow.(dEI vs TOF(F2-F3)b)) *Histogram ID = 137*