

Circumference Lengthening

03/27/15 measurements

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03/27/15 study

- Measurements were done at the injection
- Guillaume and Al were doing ramp tuning using tune feedback.
- Sextupoles settings had to be retyped by hand (they were changed when tune changes were applied)
- Used momentum change dp/p up to 0.01 (radial shift more than 15 mm in arcs)
- Measured chromaticity was quite different from expected.

Dedicated Ramp

The screenshot shows the RampEditor application window. The title bar reads "RampEditor (on cscompile01.pbn.bnl.gov)". The menu bar includes "Ramp", "Edit", "Buffer", "Optics", "Stepstone", "Compare", "Diagnostics", and "Help". The status bar shows "Editing: pp15-APEXradius0", "Live Stone: pp15-APEXradius0::store", "Ramp State: LastStone", and buttons for "Save" and "Activate / Make Live".

The "Stepstone Editor" tab is active, showing a table with columns for Time, Stepstone, Gamma, TuneX, TuneY, ChromX, and ChromY. The table has 4 rows, with the 4th row highlighted in green. A secondary table on the right shows TuneX, TuneY, ChromX, and ChromY values for the selected row.

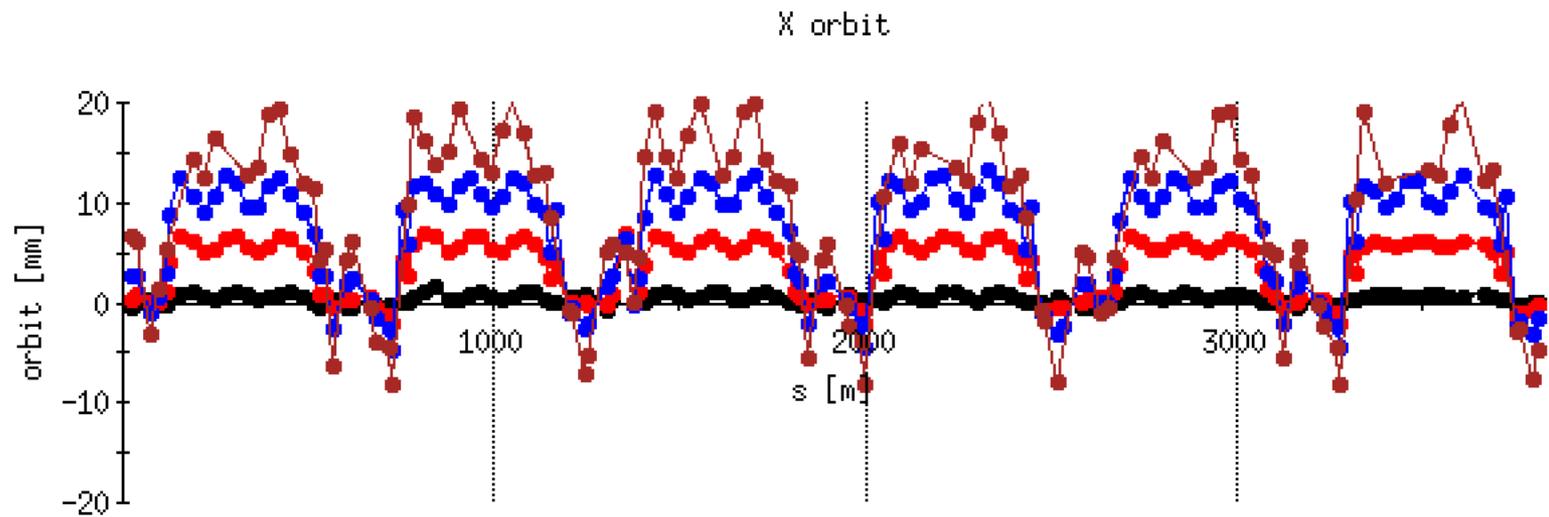
Time	Stepstone	Gamma	TuneX	TuneY	ChromX	ChromY	
1	0.0	injection	25.379	29.6222	30.6058	2.6	0.5
2	10.0	t10	25.379	29.7027	30.6857	-0.4	-0.1
3	20.0	t20	25.379	29.8094	30.7883	-6.6	-0.9
4	30.0	store	25.379	29.9140	30.8723	-38.5	-2.7

TuneX	TuneY	ChromX	ChromY
29.6222	30.6058	2.6	0.5
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29.6222	30.6058	2.6	0.5
29.6222	30.6058	2.6	0.5

At the bottom of the window, there is a "Tune Nudge" control set to 0.0005. The log at the bottom of the application shows the following messages:

```
wfgMan:messageM = Auxramp to last initiated (53 PS moved)(Mar 11 10:01:41)
Ramp activate successful.(Mar 11 10:01:43)
Ramp file activated - pp15-APEXradius0_1426082499 (Mar 11 10:01:43)
```

Orbits in 4 stones



Good ramp

