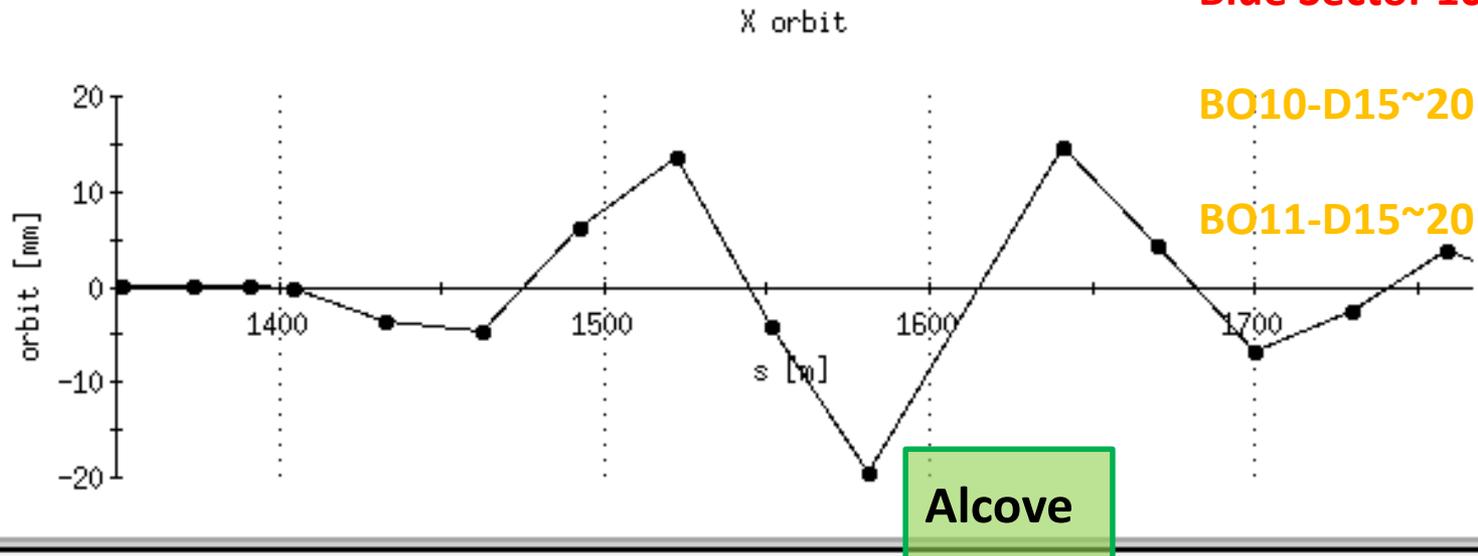


Blue Protection Bump

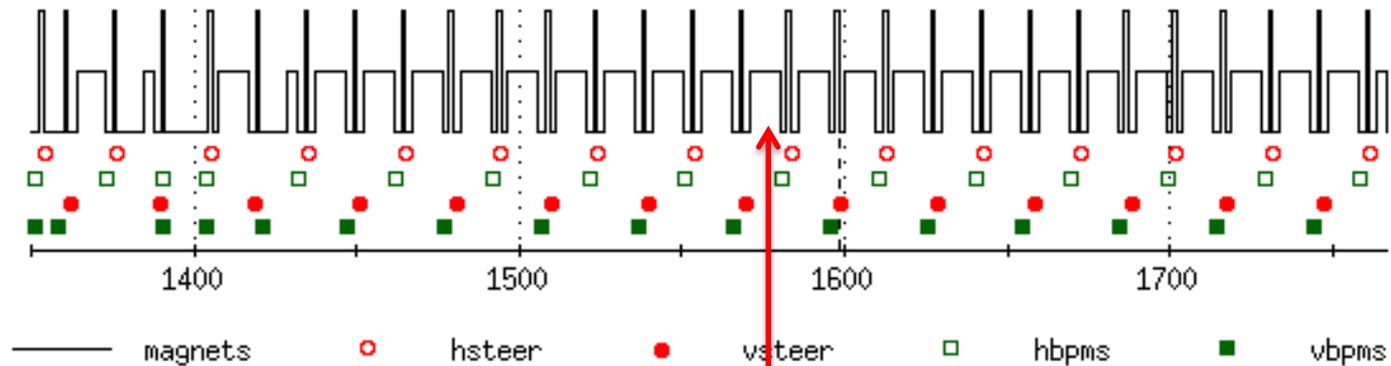
File Acquire Orbit Correction

Blue Sector 10 D19

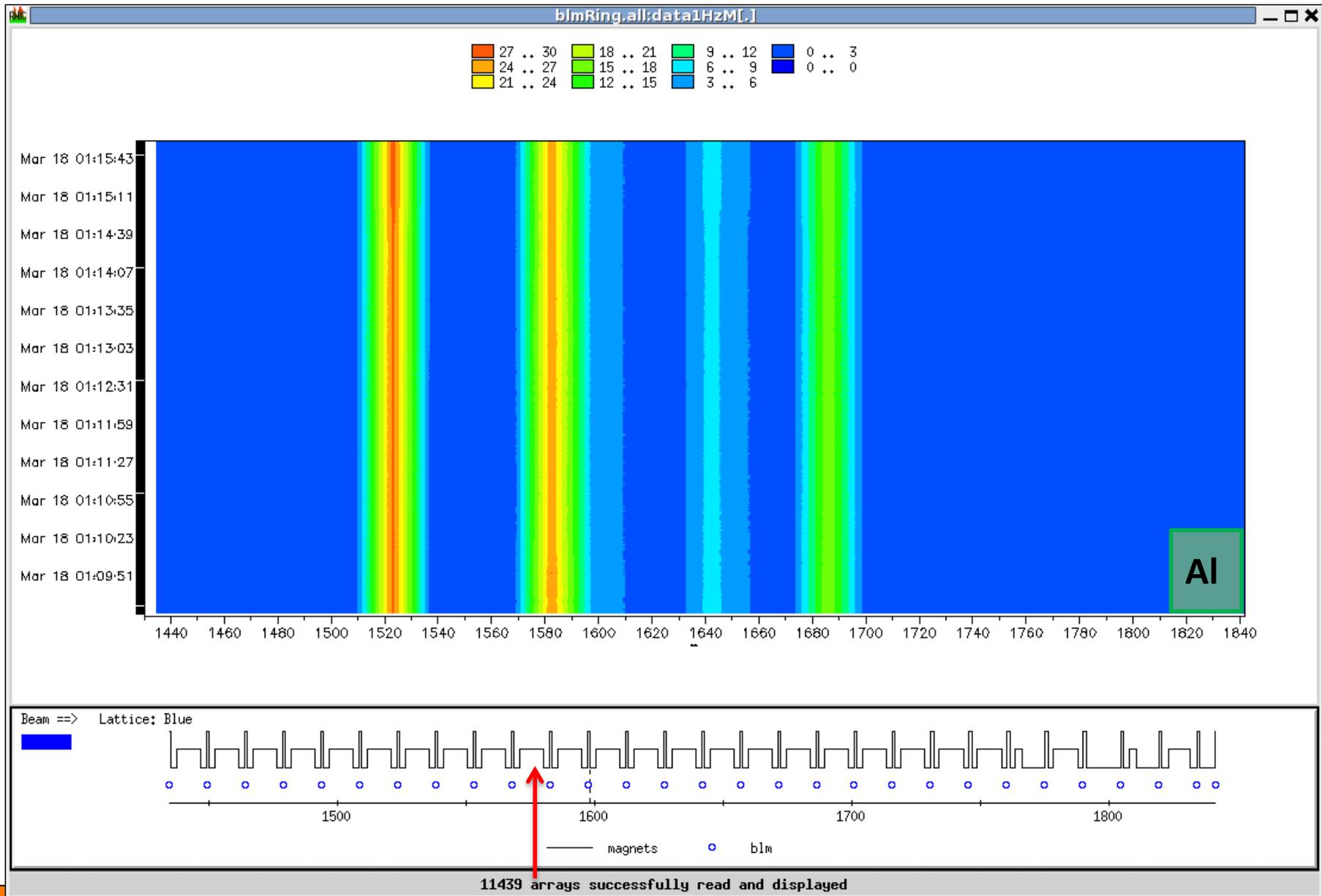


Beam ==> Lattice: Blue

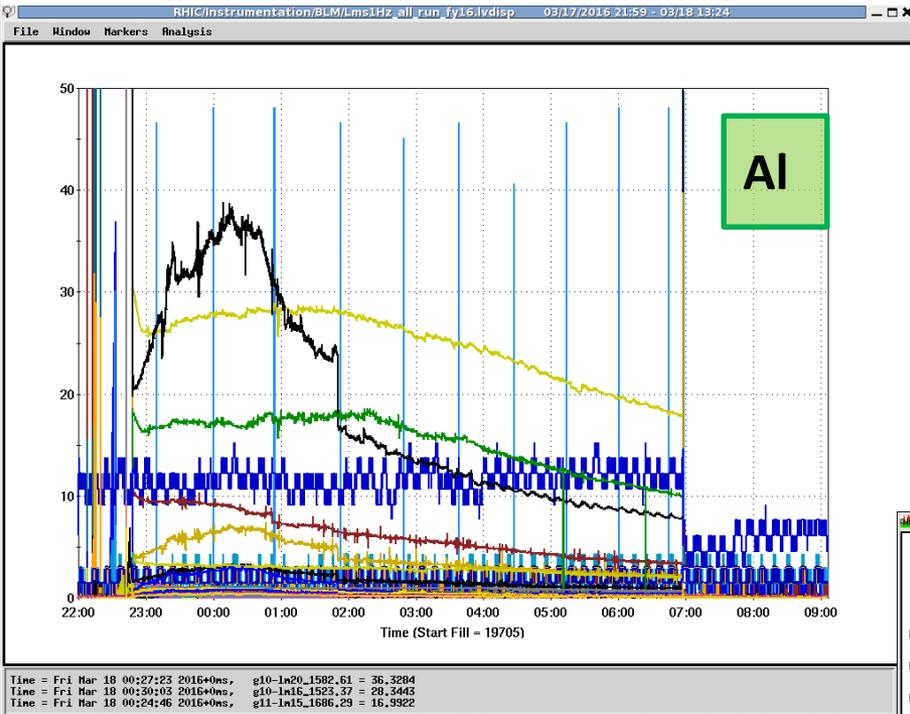
Ring



Beam Loss during store

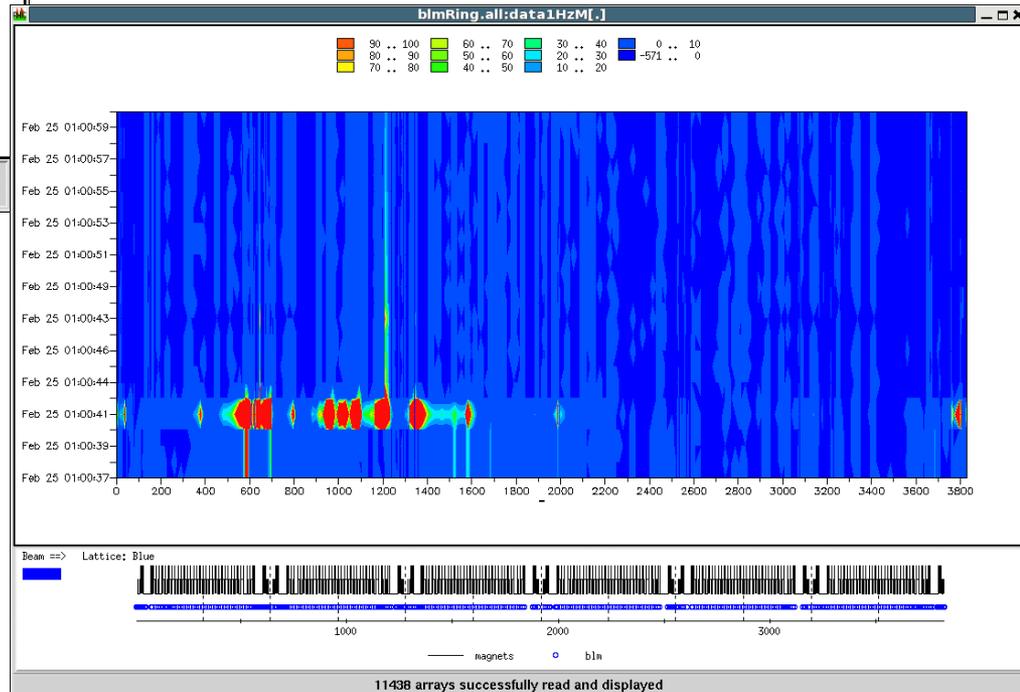


Beam Loss: Chronic and Acute



- Acute:**
1. Pre-fire
 2. APEX or MD

- Chronic:**
1. Off-momentum
 2. Au78



Solutions

1. To avoid beam loss at the same location, move protection bump to another arc (IP4 and IP6), compensation bump between IP2 and IP12
2. To reduce beam loss in the ARC, **increase** beam orbit bump amplitude around **mask**
3. To reduce beam loss in the ACR, reduce protection bump amplitude until there is no loss;

Protection bump amplitude (Guillaume)

Bump amplitude	Missing bunches to STAR
20 mm	0
17 mm	1~2
14 mm	2~4
10 mm	6~7
0	15



