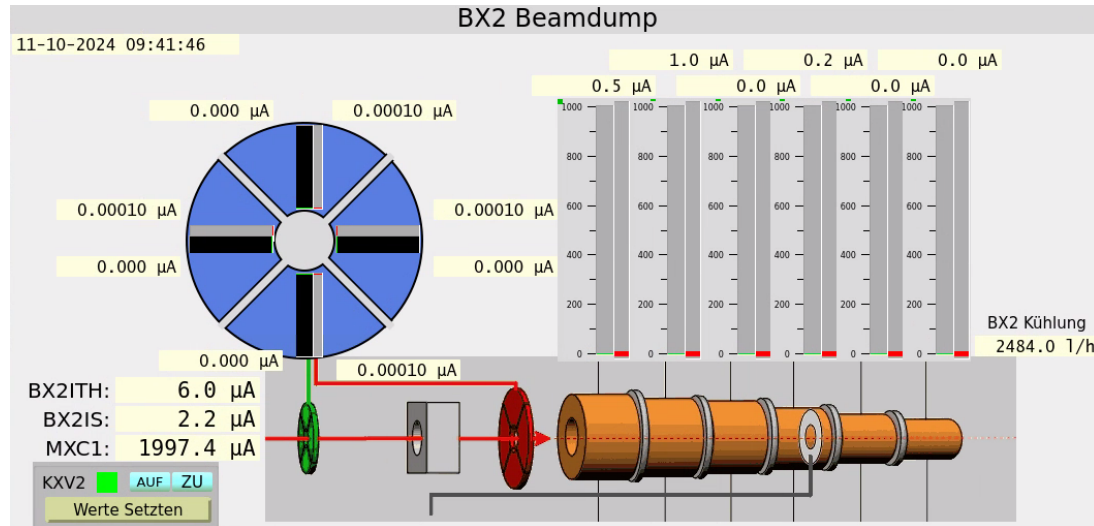




# Strahentwicklung October 10<sup>th</sup>, 2024

## – MXB2B and RRL

M. Sapinski  
PSI, Oct 16<sup>th</sup>, 2024

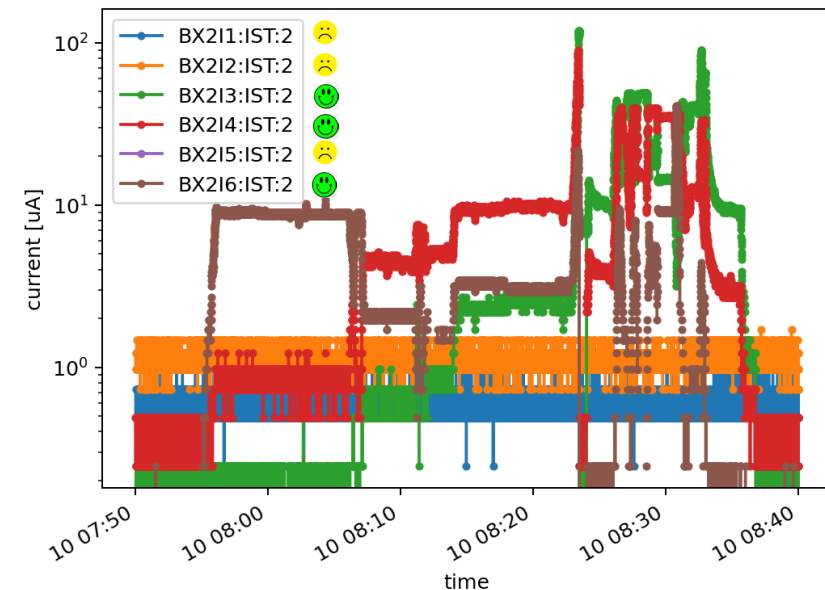


## Issues:

1. BX2I1, BX2I2 & BX2I5 sind ausgefallen – bridged interlock, potential danger of equipment damage
2. MXB2B blende – not all signals present – investigation
3. MXB2A blende – status unclear
4. Both blende have interlocks

## October 10<sup>th</sup> test:

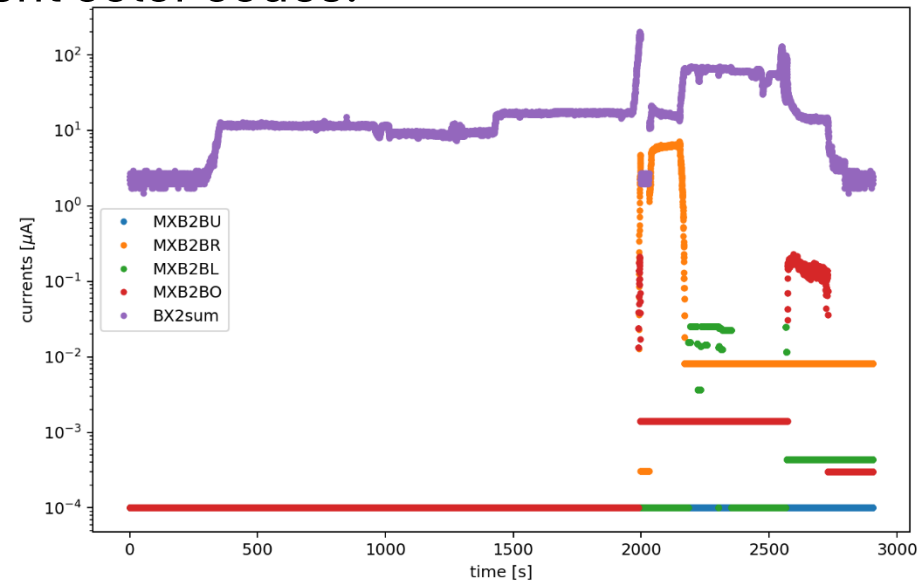
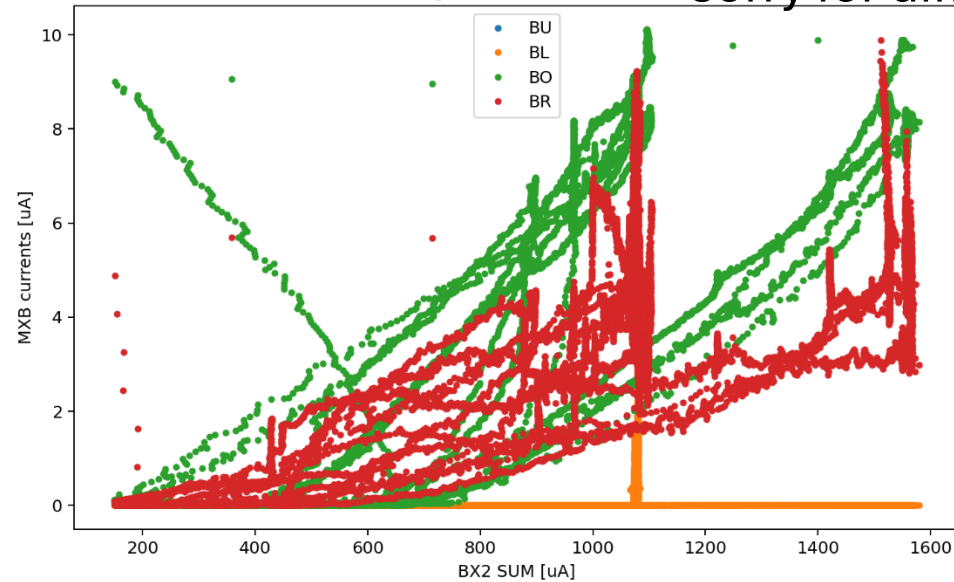
- Use low beam current (10  $\mu\text{A}$ ... but we increased to 100  $\mu\text{A}$ , frustrated by lack of signals).
- Scan beam position in 4 directions: up-down and left-right.



# MXB2B issues

Aug 14, 2024, MBX2B

sorry for different color codes!



## Database – older data analysis:

- Injector 2 setup data, beam current up to 2 mA
- Lack of signal from bottom foil (U = unten)
- Strange signal from left foil

## October 10th data analysis:

- Lack of signal from bottom foil
- Strange, low signal from left foil again

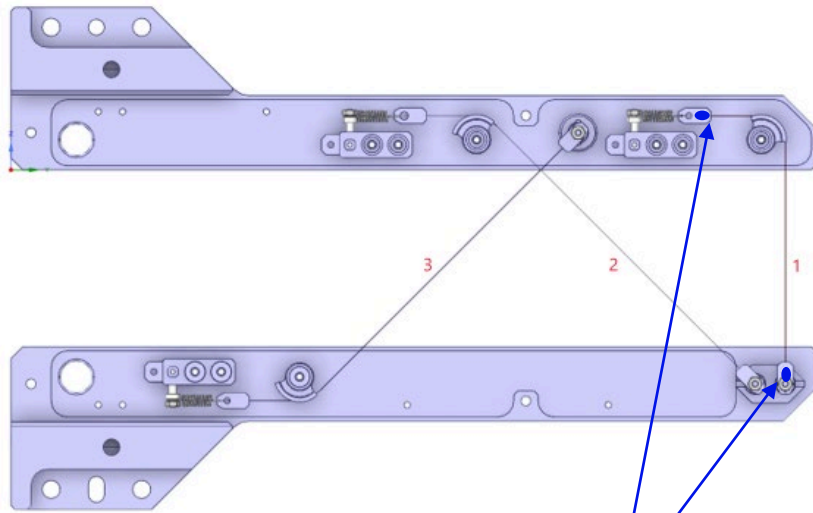
## Conclusions:

- The position interlock must be bridged!
- We have spare for this blende
- Status of MXB2A? No signals observed last week, but there are some in DB.

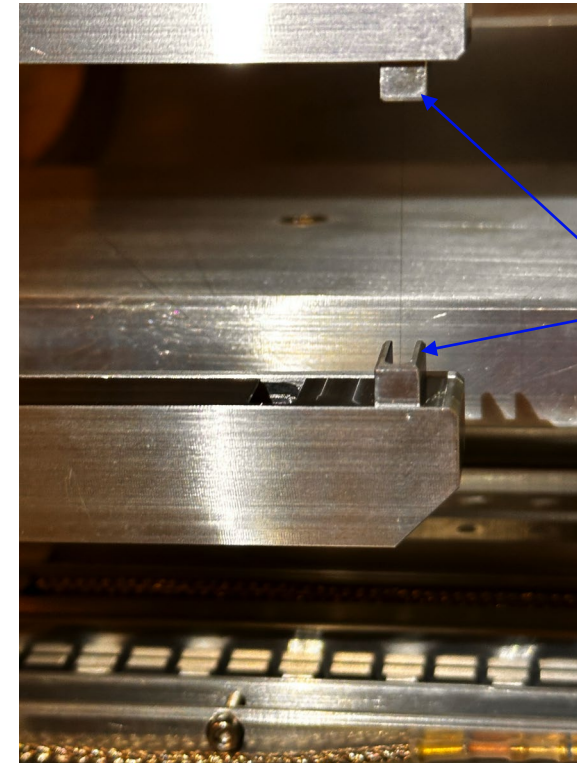
# RRL test

For 2 years we had issues with breaking RRL wires.

Now it seems that we have found a right way of attaching and protecting the wires.



Conductive  
epoxy glue



Protective  
“chimneys”

# RRL test



Glue and chimneys tested on October 10th.  
Several scans performed; no wire broken:

