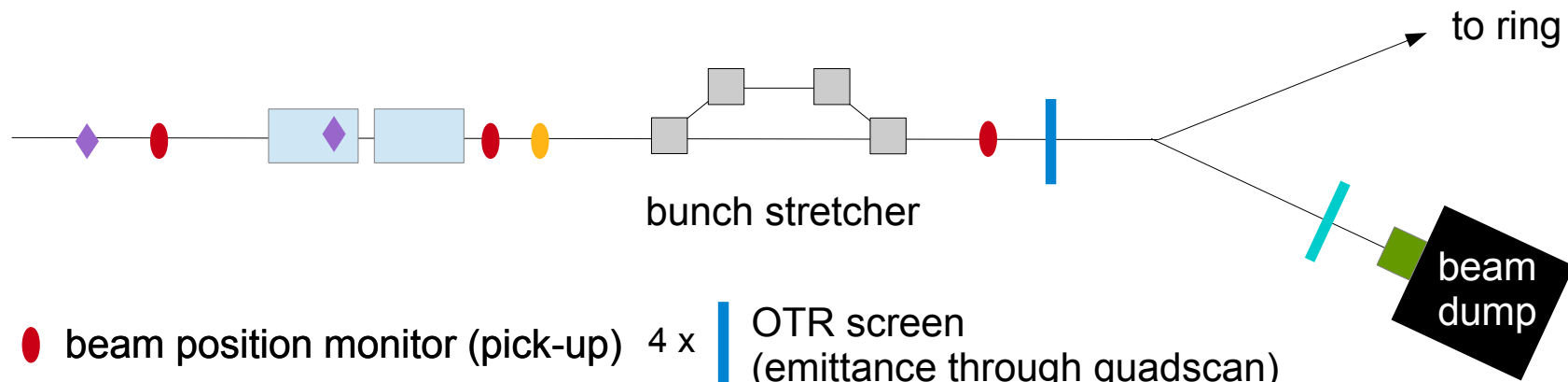
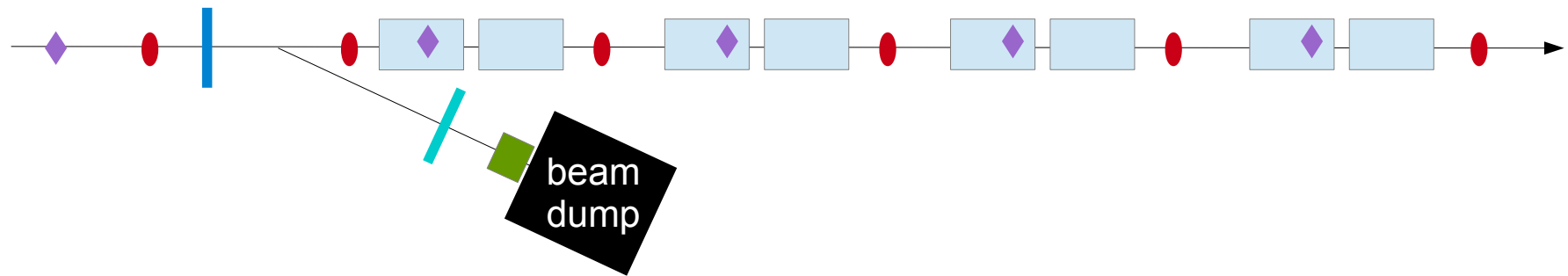
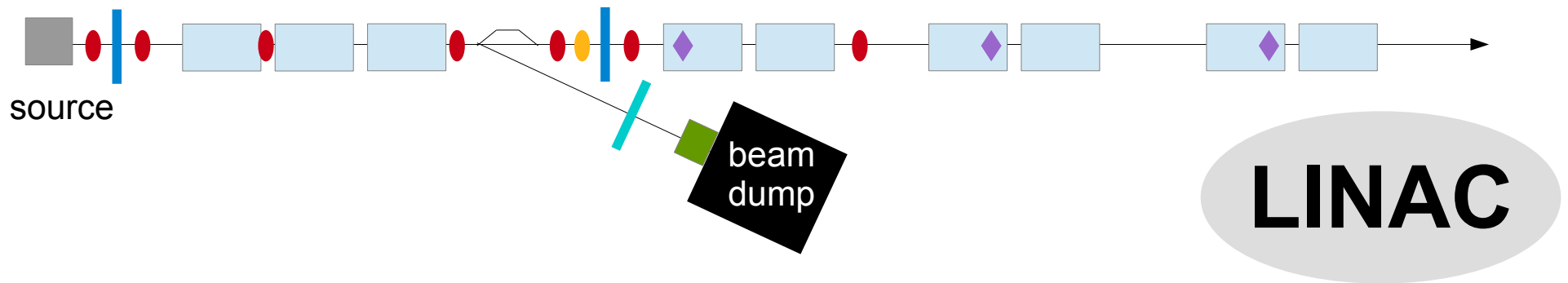


## **A. Linac + Combiner Ring: - - - Real-world example**

The sketch of the accelerator complex is a slightly simplified version of an existing machine:

the Compact Linear Collider Test Facility (CTF3) at CERN.

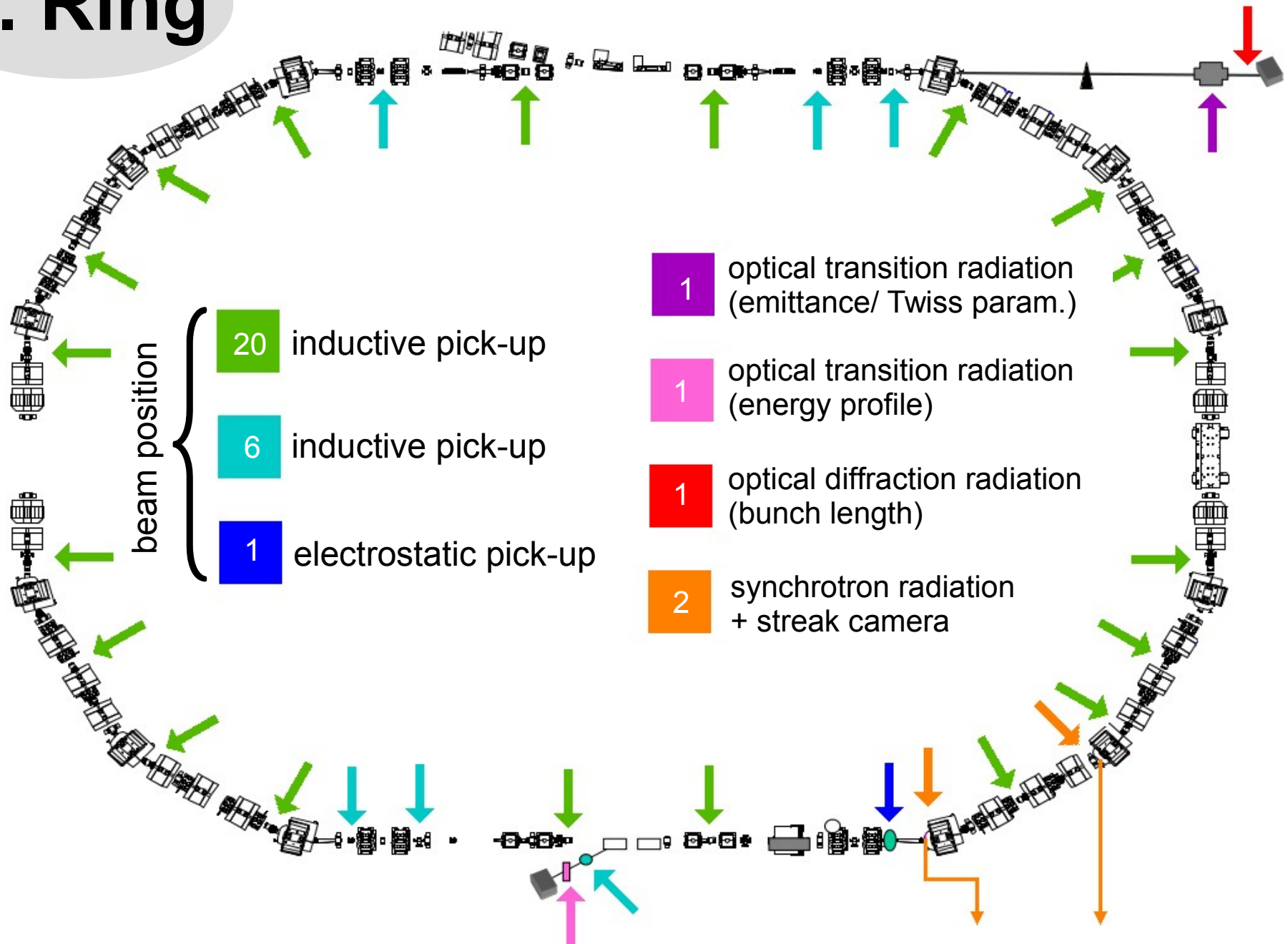
The following slides roughly show the existing beam instrumentation at CTF3.



- 16 x beam position monitor (pick-up)
- 2 x wall current monitor
- 10 x beam loss monitor

- 4 x OTR screen  
(emittance through quadscan)
- 3 x Spectrometer OTR screen
- 3 x Segmented beam dump  
(time-resolved spectrometry)

# C. Ring



## **B. ESS - - - Real-world example**

The following slides list currently planned beam instrumentation for the ESS linac.

Some monitors have not been decided upon. Please note the large number of both beam position monitors and beam loss monitors.

# ESS

