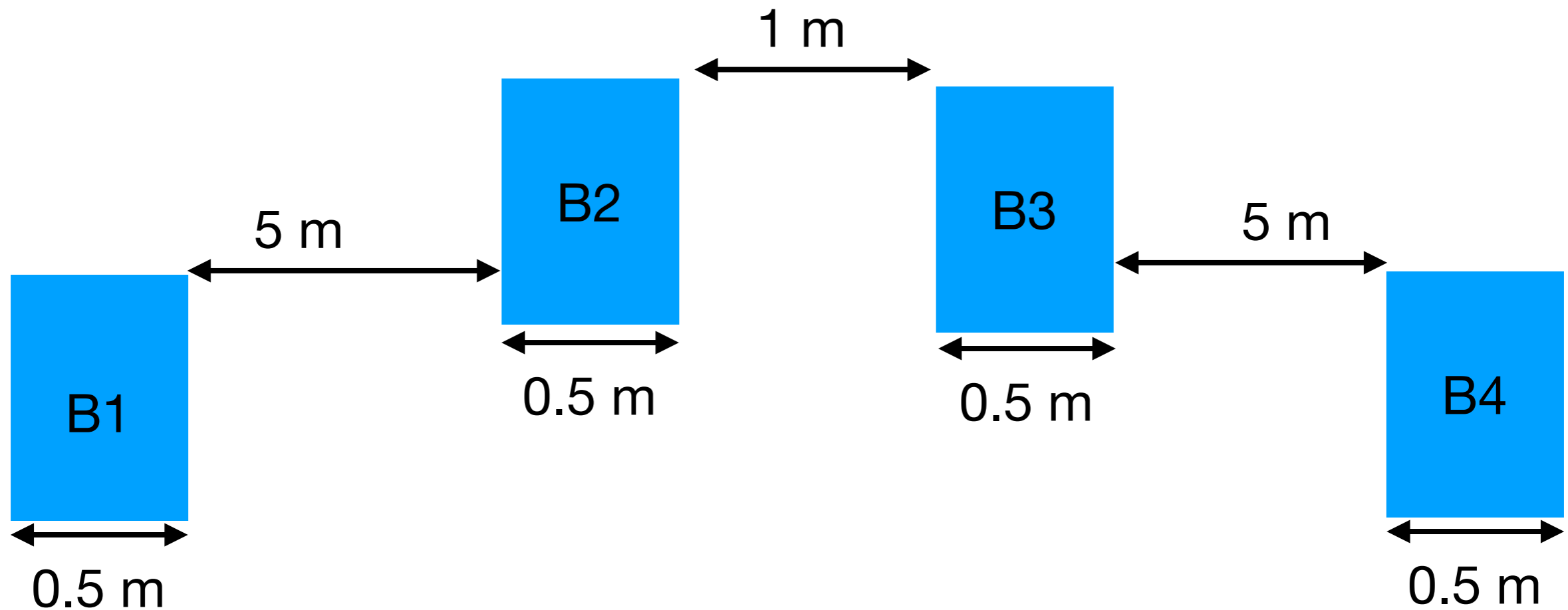


Reference used in impactX: <https://www.desy.de/csr/>

ImpactX file name: "input\_chicane.in"



Parameters are taken from: <https://www.desy.de/csr/>

First bending magnet (B1)

```
sbend1.type = sbend
```

```
sbend1.ds = 0.50037      # projected length 0.5 m, angle 2.77 deg
```

```
sbend1.rc = -10.35
```

Here, ds is the length of the magnet (correct ?).

**Question:** If yes, then why its value is 0.50037 and not 0.5 as given in <https://www.desy.de/csr/>

Free space drift between B1 and B2.

```
drift1.type = drift
```

```
drift1.ds = 5.0058489435 # projected length 5 m
```

**Question:** Again, why its value (5.0058489435) is and not 5 as given in <https://www.desy.de/csr/>

```
dipedge1.type = dipedge # dipole edge focusing
```

```
dipedge1.psi = -0.048345620280243
```

**Question:** How “psi” is calculated ?