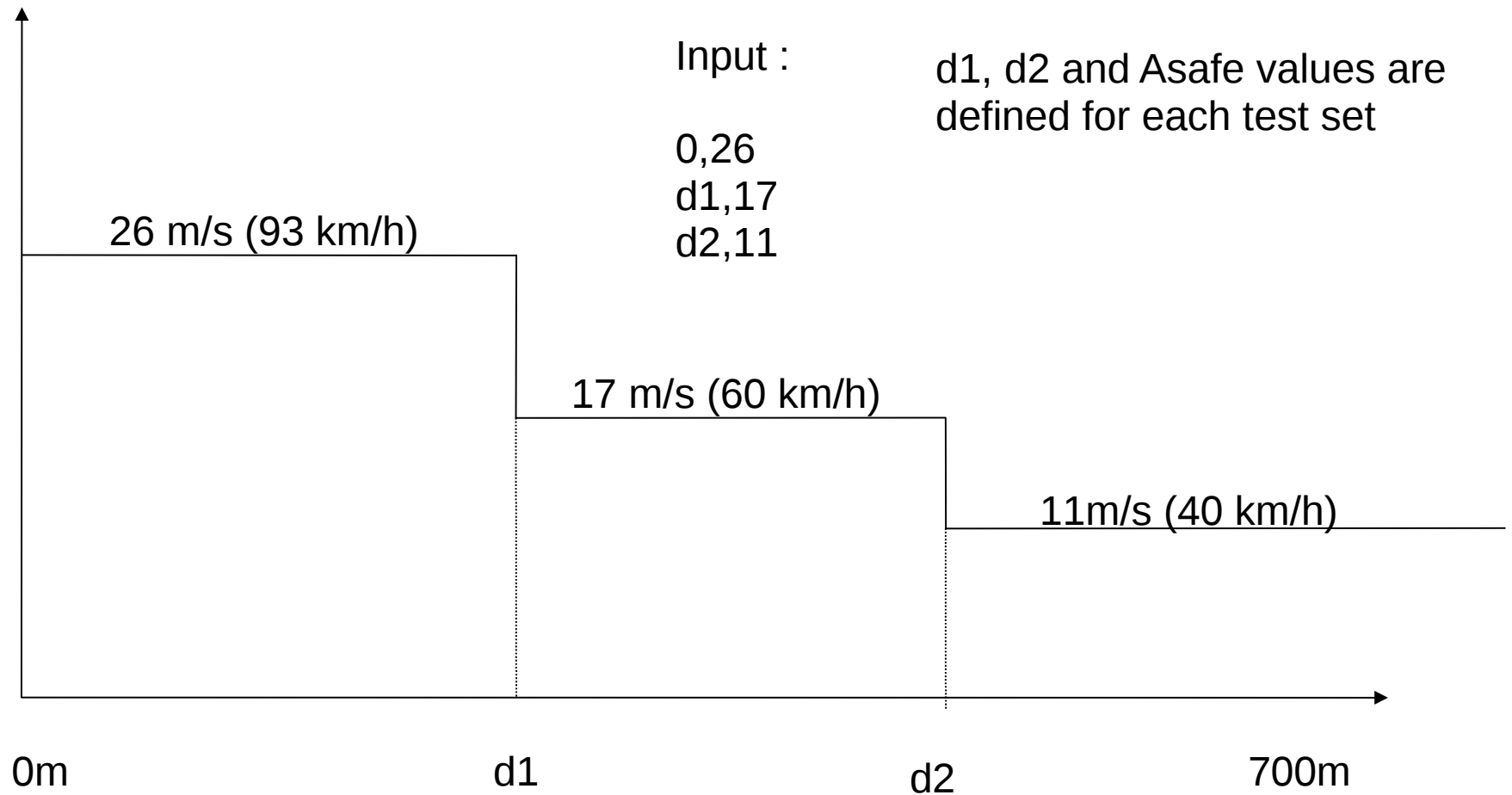# Unit test sets for braking curves

Unit test sets shall be very simple as first step :
- track length = 700m (the excel sheet of Christian
G. needs a line each 10m => 700m = 70 lines)
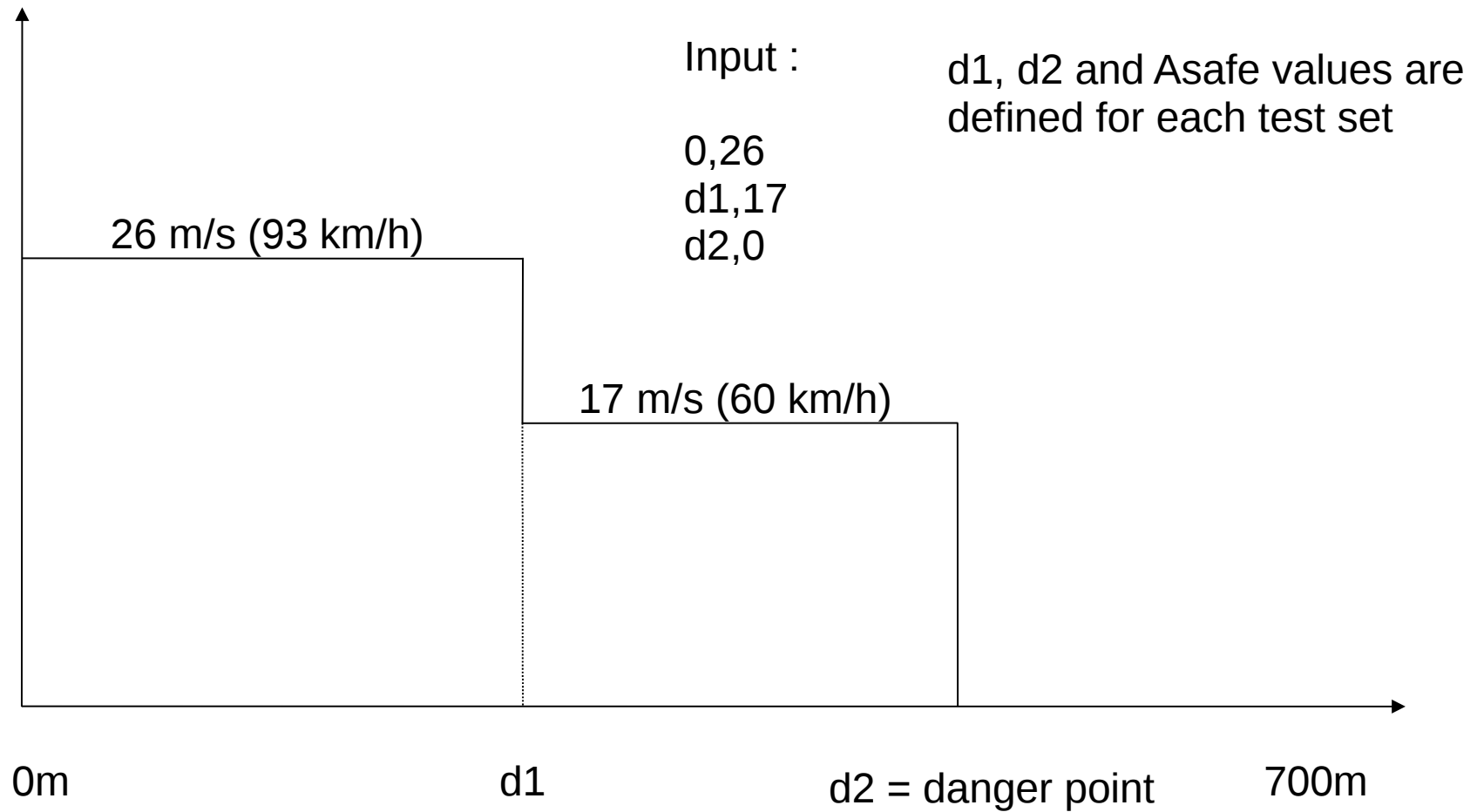 - EOA-DP included in MRSP
- constant Asafe
- constant train speed

Remainder :
only emergency curve EBI is tested: the OBU
shall command an emergency braking if
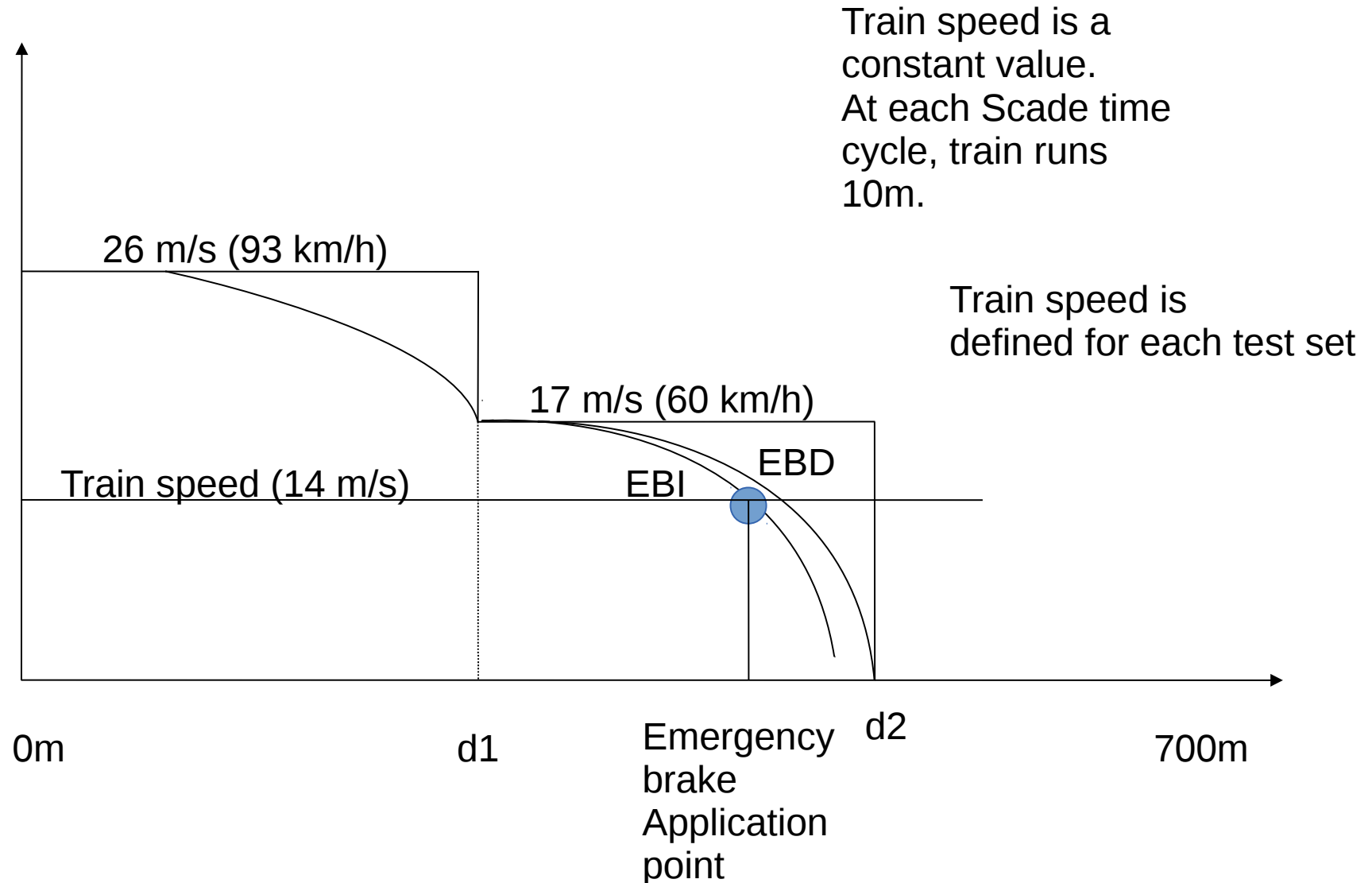Train speed > EBI

MRSP 1 without EOA

MRSP 2 with EOA

Input :

0,26
d1,17
d2,0

d1, d2 and Asafe values are defined for each test set

26 m/s (93 km/h)

17 m/s (60 km/h)

0m   d1   d2 = danger point   700m

Train runing

Train speed is a
constant value.
At each Scade time
cycle, train runs
10m.

Train speed is
defined for each test set

26 m/s (93 km/h)

17 m/s (60 km/h)

EBD

Train speed (14 m/s)   EBI

0m   d1   Emergency   d2   700m
                                        brake
                                        Application
                                        point

Test set example

- Mrsp   (0,26)(510,17)(660,11)
- Asafe   1.2
- Train speed (m/s)   20

- Braking result   (m)   330
- N° curve   402