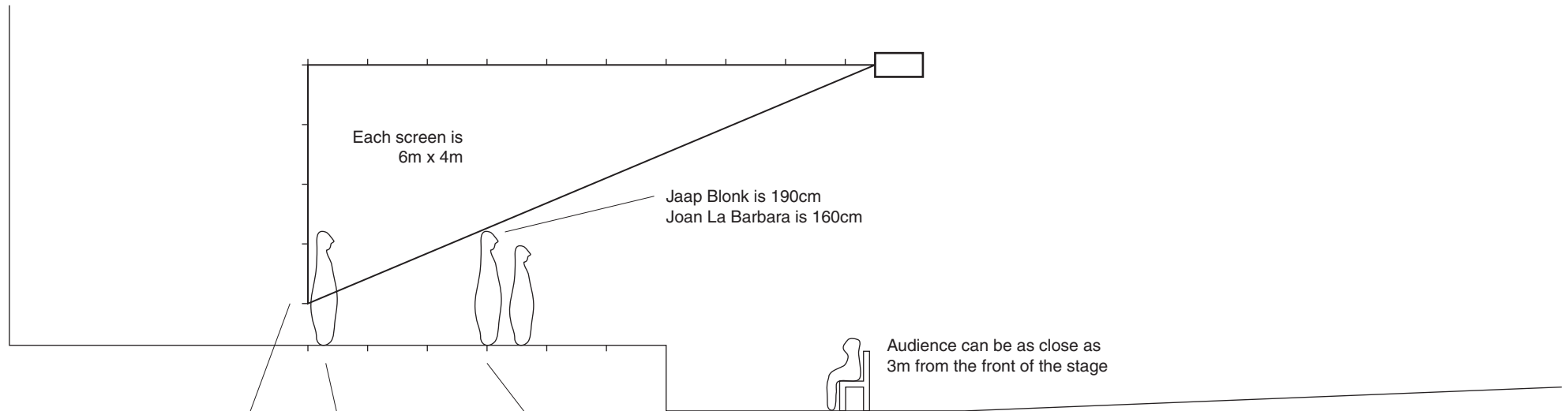


DESIGN for a possible FRONT PROJECTION,
 Brucknerhaus Main Stage
 Messa di Voce, Ars Electronica



Constraint A:
 We need **no less than 3m** of frontal stage area
 in which the tallest performer (190cm) is NOT in the projection.

Constraint B:
 There are times when the performers are right next to the screen. So we want the screen as close to the audience as possible, so that they can have a good close view of the performers. The screen should be **no more than 7m** from the edge of the stage.

Constraint C:
 For the performers to appear that they are a part of the image, the projected area of the screen must begin **no higher than 70cm** from the floor.

Given Constraints A,B,C:
 It is possible to do a front-projection setup in which the screen is **6m** from the front edge of the stage, and **70cm** high off the floor, and with the projectors **9.0 - 9.5m** from the screen, with negligible keystoneing.

If we need to give the projectors a greater distance from the screen, we would have to move the screen further back away from the audience.

With keystoneing, it may be possible to raise the projectors slightly, in order to avoid conflict with Constraint A, in order to achieve a longer projection throw.

If it is possible to raise the projectors as much as 1.0-1.5m off-axis, then the screen could move forward as much as 1m, which would be desirable if the keystoneing was not noticeable.