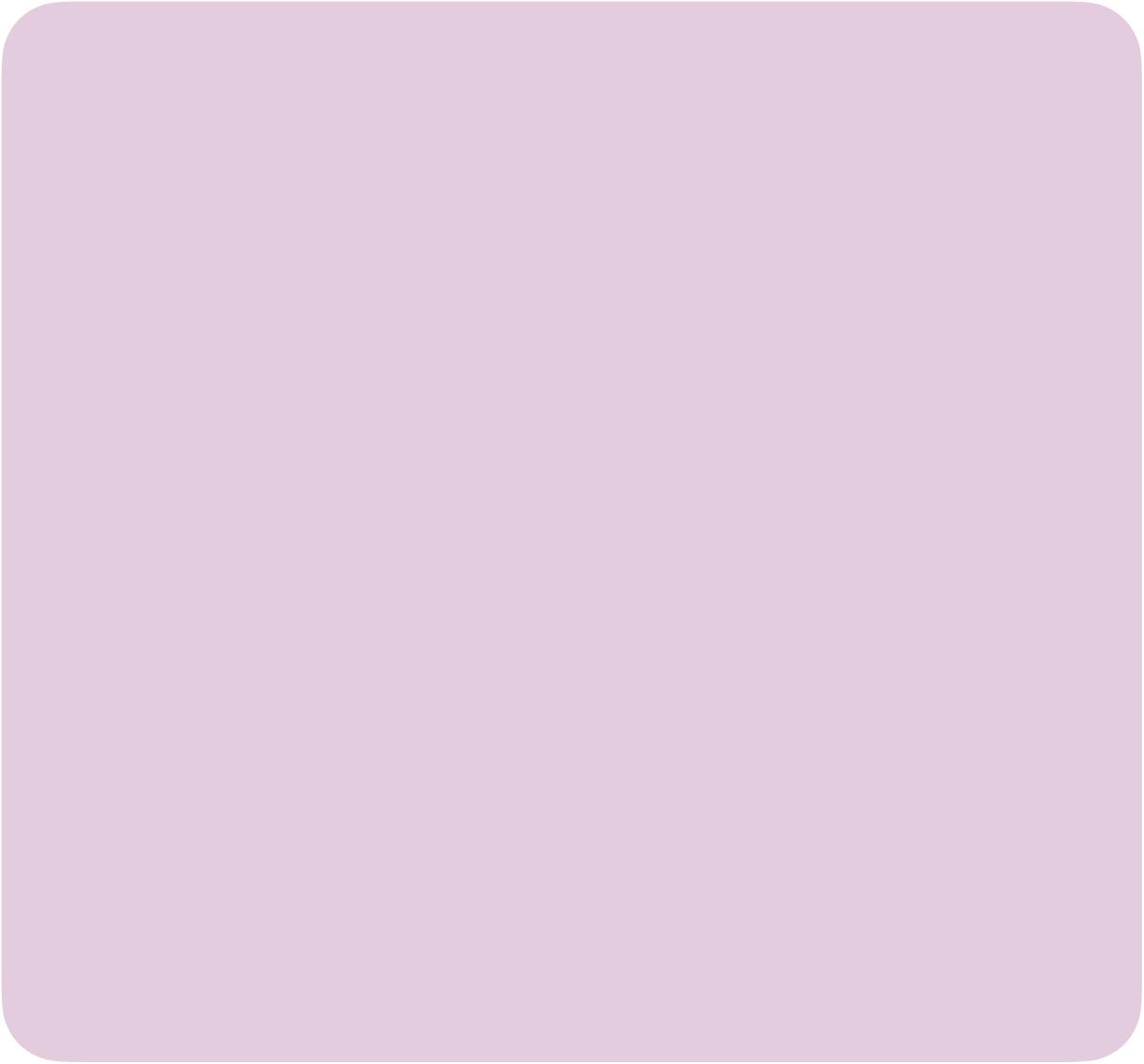
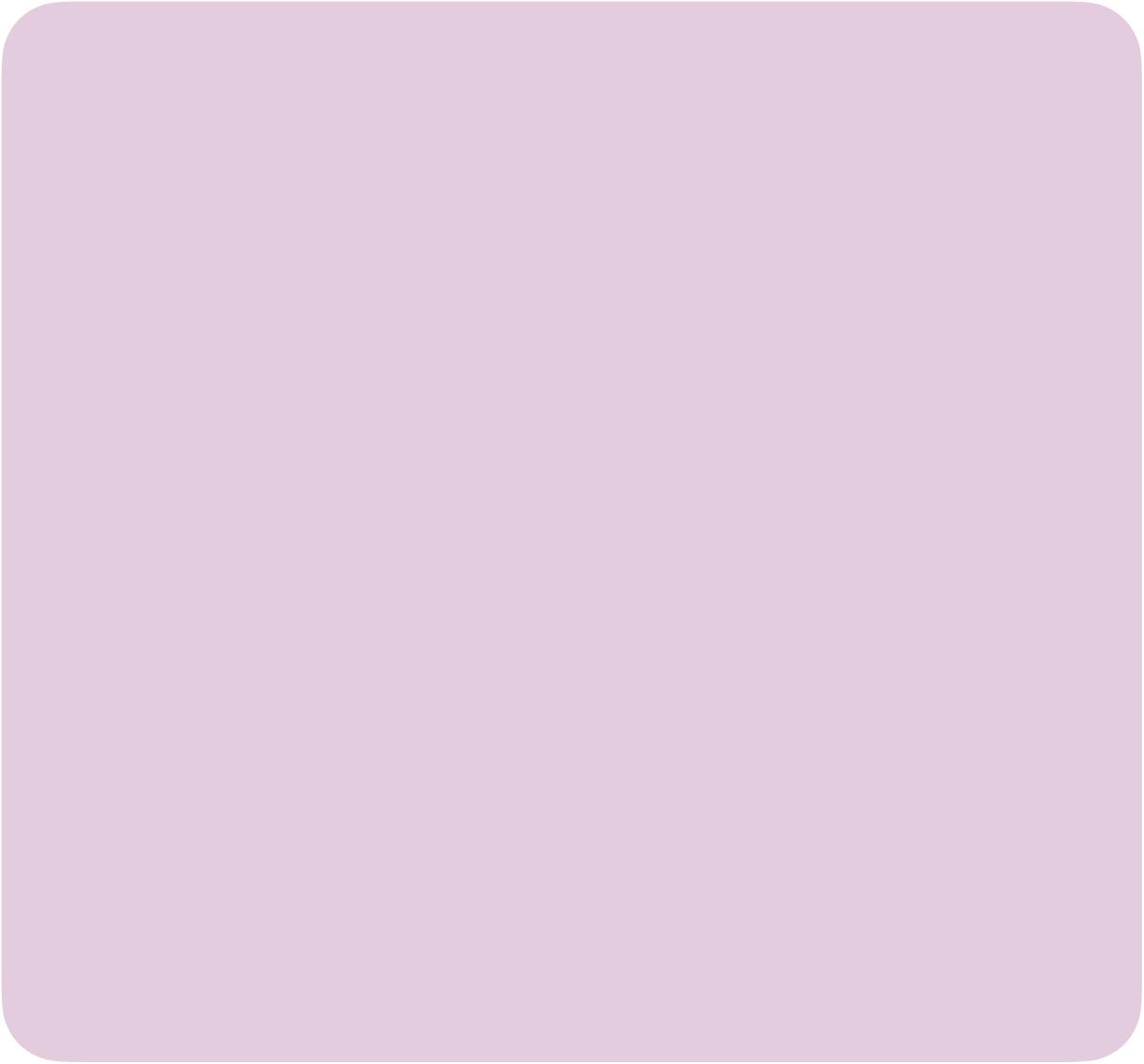
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Trajectory Optimisation

Shooting methods

Optimisation variables: a_0, \ldots, a_H

Actions

 $J(a_{0:H}) = \sum r(s_t, a_t)$

Optimisation variables: $a_0, s_0, \ldots, a_H, s_H$

Actions and states

 $J(a_{0:H}, s_{0:H}) = \sum' r(s_t, a_t)$

s.t. $||s_{t+1} - f(s_t, a_t)|| = 0$

Collocation methods

Trajectory Optimisation

Shooting methods

Optimisation variables: a_0, \ldots, a_H

Actions

$$J(a_{0:H}) = \sum_{t=0}^{H} r(s_t, a_t)$$

Collocation methods

Optimisation variables: $a_0, s_0, \ldots, a_H, s_H$

Actions and states

$$J(a_{0:H}, s_{0:H}) = \sum_{t=0}^{H} r(s_t, a_t)$$
s.t. $||s_{t+1} - f(s_t, a_t)|| = 0$

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Shooting Methods Illustration





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