

Different smoothers

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graph TD; Center((Different smoothers)) --- 1[1. Moving average smoother]; Center --- 2[2. LOESS smoother]; Center --- 3[3. Linear spline regression]; Center --- 4[4. Quadratic spline regression]; Center --- 5[5. Penalized quadratic spline]; Center --- 6[6. Penalized cubic spline]; Center --- 7[7. Cubic smoothing spline];
```

1. Moving average smoother

2. LOESS smoother

Box size

3. Linear spline regression

number of knots

4. Quadratic spline regression

5. Penalized quadratic spline

6. Penalized cubic spline

penalty on betas

7. Cubic smoothing spline

Integral of second order derivative