

- **Ramsey number $R(3, t)$:**

Ajtai, Komlós and Szemerédi ('81)

$$R(3, t) \leq c_3 \frac{t^2}{\log t} .$$

Shearer ('83)

$$R(3, t) \leq (1 + o(1)) \frac{t^2}{\log t} .$$

K('95): For $c = 1/162 + o(1)$,

$$R(3, t) \geq \frac{ct^2}{\log t}$$

(by an approximation of the triangle-free process.)

Bohman & Keevash ('13⁺) and independently

Pontiveros, Griffiths & Morris ('13⁺)

$$R(3, t) \geq \frac{(1 + o(1))t^2}{4 \log t}$$

(by analysing the triangle-free process.)

Recall that

$$R(3, t) \leq (1 + o(1)) \frac{t^2}{\log t} .$$