1003-05-705 **James Gardner*** (james@jamesjgardner.com) and **Anant Godbole**. *Pebbling random graphs.* Preliminary report.

Consider a random graph $G(n, p)$ where $n = |V(G)|$ and p is the probability that any edge from the $\binom{n}{2}$ possible edges is in $E(G)$. We determine the pebbling threshold for $G(n, p)$ as $n \to \infty$. In other words, given t randomly distributed pebbles we show that for

$$t \gg t_o \ P(G(n, p) \text{ is pebbleable} \to 1)$$

and

$$t \ll t_o \ P(G(n, p) \text{ is pebbleable} \to 0),$$

when p is both fixed and when $p \to 0$ at a specified rate. (Received September 28, 2004)

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