4. The robustness of our definitions

5. BPP
$$\subseteq \mathcal{P}_{/\mathrm{poly}}$$

6. BPP is in \mathcal{PH}

See



Sanjeev Arora, Boaz Barak:

Computational Complexity — A Modern Approach,

p. 121-128, Cambridge University Press: Cambridge-New York-Melbourne, 2009

6 BPP is in PH