Problem of the Week – 12

In Problem Set 6, we defined $\operatorname{PCP}_{\varepsilon}(r(n),q(n))$ as the set of languages that have a PCP protocol using O(r(n)) random bits and O(q(n)) queries to achieve soundness error ε (there is no error with respect to completeness).

- What is the set $PCP_0(\log n, poly(n))$?
- What is the set $PCP_{2^{-n}}(\log n, poly(n))$?
- What is the set $PCP_{1/2}(\log n, poly(n))$?