1051-13-252 Hamid Rahmati^{*}, Texas Tech University, Department of Mathematics and Statistic, Lubbock, TX 79409, and Frank Moore. *Standard systems of parameters and rings with finite local cohomology.* Preliminary report.

Let (R, \mathfrak{m}) be a local commutative noetherian ring. It is known that the local cohomology modules $\mathrm{H}^{i}_{\mathfrak{m}}(R)$, for $i < \dim R$, are finitely generated if and only if there exists an integer n such that every system of parameters $\underline{x} = x_1, \ldots, x_d$ in \mathfrak{m}^n is standard, that is to say \underline{x} satisfies

$$(\underline{x}) \operatorname{H}^{i}_{\mathfrak{m}}(R/(x_1,\ldots,x_j)) = 0$$

for all non-negative integers i, j with i + j < d. We give an upper bound for the smallest n with this property. (Received August 25, 2009)