



Math for the people, by the people.

almost periodic function (equivalent definition)

| | |
|------------------|--|
| Canonical name | AlmostPeriodicFunctionequivalentDefinition |
| Date of creation | 2013-03-22 15:23:03 |
| Last modified on | 2013-03-22 15:23:03 |
| Owner | rspuzio (6075) |
| Last modified by | rspuzio (6075) |
| Numerical id | 8 |
| Author | rspuzio (6075) |
| Entry type | Definition |
| Classification | msc 42A75 |

There is an equivalent definition of almost periodic function due to Bochner:

A function $f: \mathbb{R} \rightarrow \mathbb{R}$ is *almost periodic* if every sequence of translates of f has a uniformly convergent subsequence.

Not only is this definition simpler to state than that of Bohr, but it also generalizes to functions on groups.