

PRECISE ALUMINIUM KEEPS TIME

The aluminium based Quantum Clock is 37 times more precise than the existing international standard. It confines aluminum and beryllium ions together in an electromagnetic trap. The clock loses one second every 3.4 billion years. The aluminum clock is very accurate because it is insensitive to background magnetic and electric fields and to temperature.

In February 2010 an enhanced version of the quantum logic clock was made using a single Aluminum atom. Considered the world's most precise clock, it offers more than twice the precision of the original.

“Every second counts!”

