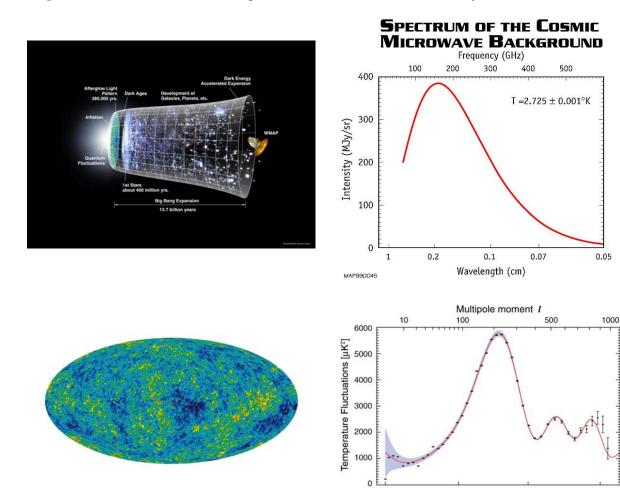
The Universality of Music, and Diversity in Music

After teaching the Physics of Music/Musical Instruments course(s) here at UIUC for more than a decade, one of the most fascinating, deep questions, or (collection) of things that I like to think about/contemplate is "why music is <u>so</u> important" to us as human beings – music runs *very* deep in *all* humans (at least "normal" humans) – so much so, sometimes I seriously wonder if our enjoyment (need?) for music is literally *genetically* programmed into (all of) us...

Let's give a brief perspective on the *timescales* of what we're about to discuss:

• From various astrophysical measurements – *e.g.* the cosmic microwave background – a remnant of the *Big Bang*, and measurements of the so-called *Hubble constant* – the rate of *expansion* of the universe – the age of the universe is ~ 13.7 *billion* years old.



Angular Size