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On the Origin of the CMB

It is proposed that the source of the CMB arises from microwaves emitted from atoms at very low temperatures. The metric employed, an exact solution of the Einstein field equations, embraces the electrical interaction as well as the gravitational interaction. It is applied semi-classically to atomic spectra. The result is that a number of elements –hydrogen, nitrogen, carbon, chlorine, iron, boron, magnesium, silicon, nickel, cobalt – are predicted to emit millimeter length microwaves at temperatures in the 2 to 6 Kelvin range. The metals emit at or below 2K. If these totally unexpected emissions are confirmed, they would provide direct experimental evidence for the physical origin of the cosmic microwave background.

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