**The Nature of Infinity in Quantum Field Calculations** RICHARD
KRISKE, University of Minnesota — In many textbooks on Quantum Field Theory
it has been noted that an infinity is taken a circle and the flux is calculated from
the A field in that manner. There are of course many such examples of this sort
of calculation using infinity as a circle. This author would like to point out that if
the three dimensions of space are curved and the one dimension of time is not, in
say a four space, infinity is the horizon, which is not a circle but rather a sphere; as
long as space-time is curved uniformly, smoothly and has positive curvature. This
author believes the math may be in error, since maps of the CMBR seem to indicate
a "Swiss-Cheese" type of topology, wherein the Sphere at infinity (the Horizon of the
Universe), has holes in it that can readily be seen. This author believes that these
irregularities most certainly have a calculable effect on QED, QCD and Quantum
Field Theory.

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