962-11-853   **Bruce C. Berndt** (`berndt@math.uiuc.edu`) and **Jaebum Sohn*** (`j-sohn@math.uiuc.edu`),
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Asymptotic formulas for two continued fractions in Ramanujan's lost notebook.

On page 45 of his lost notebook, Ramanujan recorded two asymptotic formulas for two continued fractions involving the Riemann zeta function and Dirichlet L-functions. In this talk, we'll prove a more general theorem and derive Ramanujan's claims as a corollary of our theorem. Also asymptotic formulas for the Rogers–Ramanujan continued fraction and the Göllnitz–Gordon continued fraction will be presented. (Received September 27, 2000)