Proof: The function \( f(z) \) defined by the power series is continuous on \( C \), so the integrals in (ref:one) are well-defined. We need to show that

\[
\lim_{z \to z_0} \int_C f(z) - \sum_{n=0}^{\infty} a_n z^n \, dz = 0
\]

Since \( C \) lies inside the circle of convergence, the series converges uniformly on \( C \) to \( f(z) \). For any \( \epsilon \), there is an \( N(\epsilon) \) so that, for all \( z \in C \),

\[
\sum_{n=0}^{N(\epsilon)} a_n z^n < \epsilon
\]

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We'll meet and stay at the Benson Hotel, Portland's premier hotel recently restored to its grand stature of the early 1900s. A registered historic landmark, the Benson was built by Oregon lumberman, Simon Benson using elaborate craftsmanship and imported wood interiors. Special TUG rates: $89/night (available until June 26 only.)

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Watch your mail and future issues of TUGboat and TeX & TUG News for more details. In the meantime, if you have questions, contact:

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