Lecture 43: Laurent series and Partial Fractions

Math 660—Jim Fowler

Thursday, August 19, 2010

Laurent series

A **Laurent series** is one of the form

$$\sum_{n=-\infty}^{\infty} a_n z^n.$$

The series is **convergent** if the parts consisting of nonnegative powers and negative powers are separately convergent.

Laurent series

A **Laurent series** is one of the form

$$\sum_{n=-\infty}^{\infty} a_n z^n.$$

The series is **convergent** if the parts consisting of nonnegative powers and negative powers are separately convergent.

Convergence occurs in an annulus.