Session 12, March 31, 2011, 12:30-16:15

Program

- 1. 12:30–14:00 in G5-112. I will go through the definitions and the properties of contour integrals in the complex plane, section 4 in [AJ].
- 2. 14:00–16:15 in groups. See the list of exercises below. Note that there is extra time for solving problems today.

Exercises Solve the exercises in the order posed.

- 1. From [AJ] section 3.1 Exercises 6, 8, 9, 10.
- 2. The exercises on the list below.
- 3. Exam June 2008, Opgave 4.
- 4. Re-Exam August 2008, Opgave 4.

Problem list. For each of the power series below determine its radius of convergence.

$$1. \sum_{n=0}^{\infty} e^{in} z^n.$$

2.
$$\sum_{n=0}^{\infty} (1+i)^n z^n$$
.

$$3. \sum_{n=0}^{\infty} \frac{1}{1+in} z^n.$$

Arne Jensen