Session 11, March 28, 2011, 12:30-16:15

Program

- 1. 12:30–14:00 in G5-112. I continue with the power series, section 3 in [AJ]. The relation between analytic functions and holomorphic functions will be explained.
- 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 1, 2, 3, 4. Comment on Exercise 2: We define $\cos(z)$ and $\sin(z)$ for $z \in \mathbb{C}$ as

$$\cos(z) = \frac{1}{2}(e^{iz} + e^{-iz})$$
 and $\sin(z) = \frac{1}{2i}(e^{iz} - e^{-iz}).$

- 2. Trial Exam June 2005, Opgave 3.
- 3. Exam June 2006, Opgave 4.

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