


We are interested in the behaviour of the Schrödinger evolution for initial data in (near) $H^{1/4}$. Positive result is in Carleson a few pages near II.3 and negative result is in Dahlberg Kenig. This prepares for the topic on Schroedinger maximal function by Bourgain and Du et al. If time allows some comments on the connections with the rest of Carleson’s paper would be nice, though not required.


Part 1: Page 633–654;


*Date*: May 3, 2017.
Part 2: Page 654–678.


Part I Sections 2+3


Part III. Sections 5, if time allows 6


and


Part I : Sections 1-2


Part II: Sections 3+4


Part I: Sections 1,2,5


Part II: Sections 3,4


   Part 1: Section 3, page 69–76, Section 5 and Section 6 (the last two sections are based on a result in Section 4);

   Part 2: Section 4.

(25) **Michal Warchalski:**

(26) **Dong Dong:**
   Roth, K. F. *Rational approximations to algebraic numbers.* Mathematika 2 (1955), 1-20; corrigendum, 168. There are probably alternative resources for the theorem, we’d also be happy to just hear special cases of the theorem that display the polynomial method.

(27) **Dominique Maldague:**
   See also the first chapter of the book by Wolfgang Schmidt *Equations over finite fields : an elementary approach*


(29) **Houry Malkonian:**
   Ruixiang Zhang  *A proof of the multijoint conjecture and Carbery’s generalization.* arxiv:1612.05717
   For example the Kakeya paper may be the first lectures and the joints problems may be the second lecture.

Part II Section 4