Analysis of some data from microstructure database

Andy Pickering

May 25, 2017

Contents

1 Overview **2**

2 Methods **2**

3 Results **2**

1 Overview

I analyzed some data sets from the microstructure database that Amy set up, to compare the results to my EQ14 analysis.

2 Methods

I computed ϵ_χ as

$$\epsilon_\chi = \frac{N^2 \chi}{2\gamma < T_z^2} \tag{1}$$

3 Results

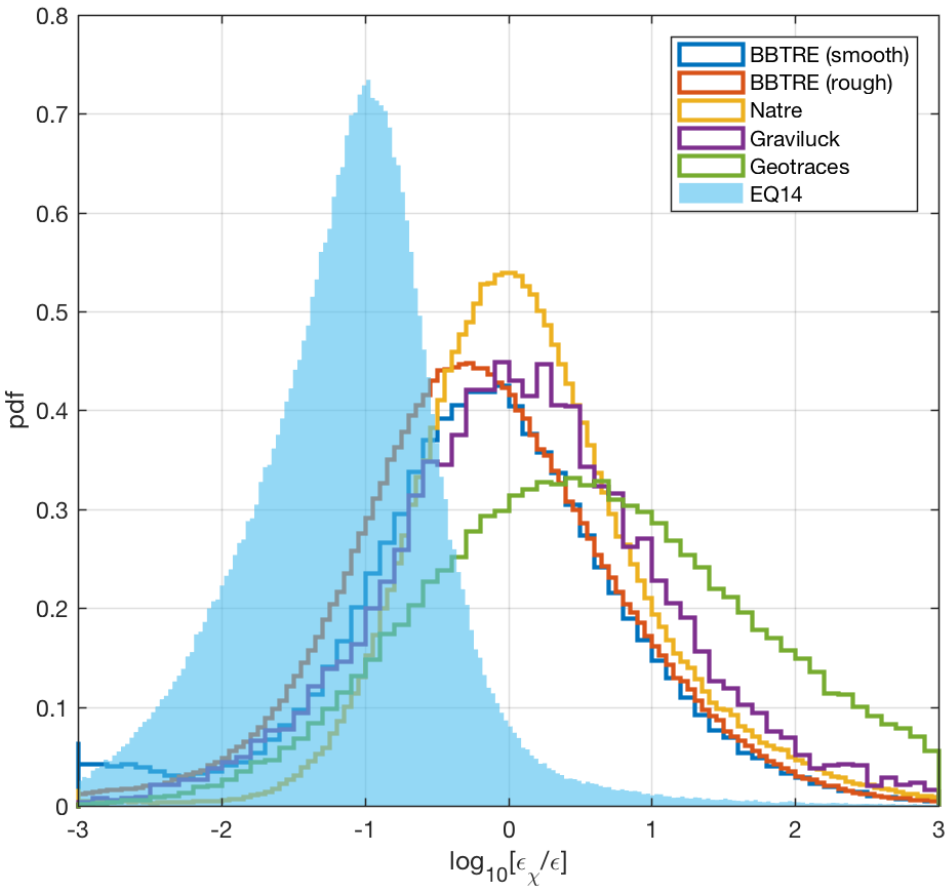

Figure 1: Histograms of (log10) the ratio ϵ_χ/ϵ.

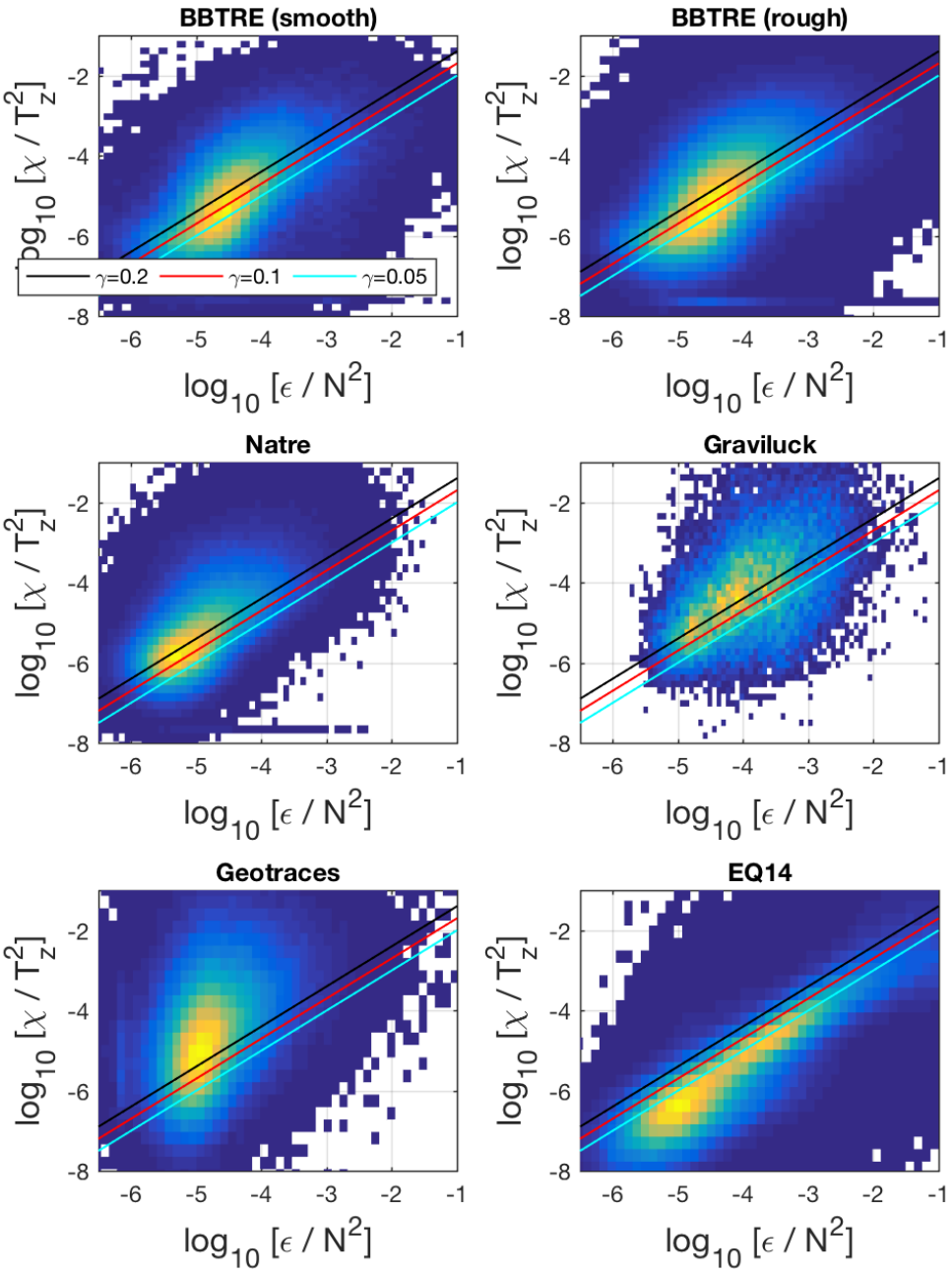

Figure 2: χ vs ϵ, normalized such that the slope is proportional to γ.

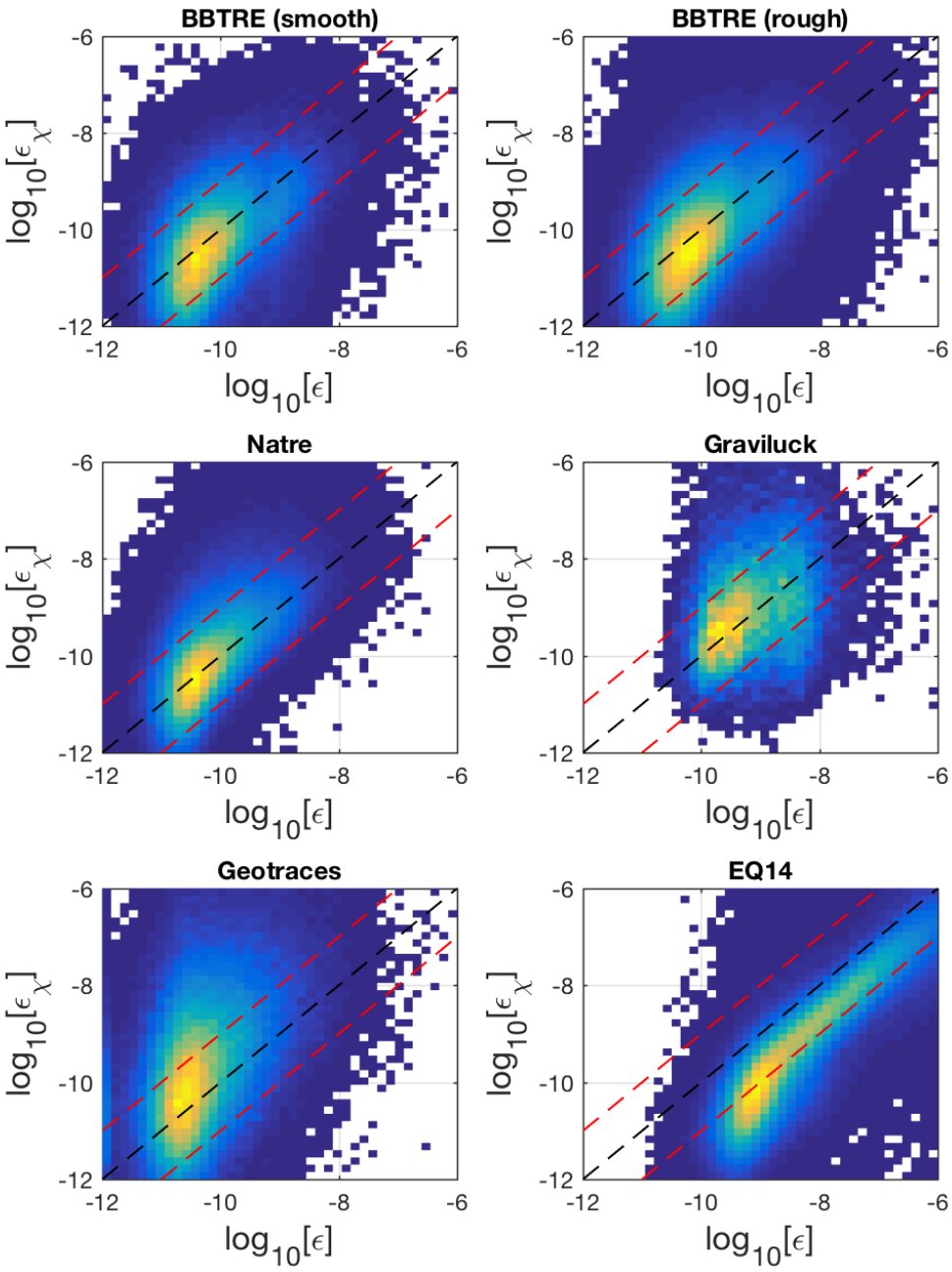

Figure 3: 2D histograms of ϵ_χ vs ϵ.