

**Supporting information for**

**Studying long-time dynamics of imidazolium-based ionic liquids with a systematically coarse-grained model**

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**Contents:**

7 pages including:

**Figure 1.** Comparison between atomistic and coarse-grained radial distribution functions for [C<sub>4</sub>mim][PF<sub>6</sub>] as obtained from the two mapping schemes employed (MS1 and MS2). For the label of the beads see Figure 1 of the manuscript.











