



**Franciszek Hugon Szafraniec** (Franciszek.Szafraniec@im.uj.edu.pl)  
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Kraków, Poland, *How much indeterminacy may fit  
in a moment problem or Naimark extensions in  
action.*

ABSTRACT. I intend to show how Naimark extensions revive the classical Hamburger moment and complete the information which in this or another way is related to von Neumann extensions. It turns up an example (or even a class of examples) having (among others) representing measures with the following features

1. the support of each of them is in arithmetic progression;
2. the supports of all the measures together partition the real line;
3. none of them is N-extremal;
4. all of them are of infinite order.

This is a report on the joint effort of Dariusz Cichoń, Jan Stochel and myself.