

**PENSION FUND DESIGN UNDER FAIRNESS AND
EFFICIENCY CONSTRAINTS
AN ABSTRACT FOR THE 3RD IAA LIFE COLLOQUIUM
BEYOND TRADITIONAL LIFE INSURANCE
TOPIC: 2. DESIGNING LIFE INSURANCE PRODUCTS**

ESBEN MASOTTI KRYGER

ABSTRACT. The benefits that members of with-profits pension schemes obtain are determined by the scheme design and the *random* funding level at the time of entry.

This paper examines mutually owned with-profits pension scheme design and its effect on intergenerational fairness and efficiency as measured by the level of redistribution and the certainty equivalent benefit respectively. Present practice is analysed, and as a consequence of its disappointing performance alternative designs are suggested and evaluated.

The focus on intergenerational subsidisation is closely related to the implementation of the contribution principle.

LABORATORY OF ACTUARIAL MATHEMATICS, DEPARTMENT OF MATHEMATICAL SCIENCES, UNIVERSITY OF COPENHAGEN, UNIVERSITETSPARKEN 5, DK-2100 KØBENHAVN Ø, DENMARK, TEL: +45 51 94 51 47

E-mail address: ekj@atp.dk

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