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Taxation and the optimal constraint on corporate debt finance: why a comprehensive business income tax is suboptimal

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5% of corporate tax revenue. The welfare gain would arise mainly from a fall in the social risks associated with corporate investment, but also from the cut in the corporate tax rate made possible by a broader corporate tax base.

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- 4. For example, according to table 1 in Chen et al. (2007), the difference between the average yield on US corporate bonds with an AA-rating and medium maturity (7–15 years) and the average yield on comparable maturity treasury bonds from 1995 to 2003 was 146.27 basis points. For AAA-rated corporate bonds, the yield spread was 82.44 basis points, and for A-rated bonds, it was 177.68 basis points.

6 To derive the optimal constraint on debt finance from formula (21) and the

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A second-order Taylor approximation of this expression around \(\beta =\bar{\beta \}\) yields

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The social risk premium is

```
$$\begin{aligned} p_\mathrm{s} \left( \beta \right) \equiv \left( {1-\beta } \right)
p_\mathrm{e} \left( \beta \right) +\beta p_\mathrm{d} \left( \beta \right) .
\end{aligned}$$
(36)
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In the absence of tax (\(\tau = 0)\), private and social risk premiums would coincide, and firms would minimize their cost of finance by minimizing the expression in (36), implying the first-order condition

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and inserting (38) and (39) into (33), we obtain

as stated in ($\underline{6}$) in Sect. $\underline{2}$. Further, by using ($\underline{37}$), we can write the second-order Taylor approximation to the social risk premium ($\underline{36}$) around \(\beta = \bar{\beta}\) as

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 $$ \left( \frac{d} \right) ^{2} = b + \left( \frac{2p_\mathrm{d}^{\mathrm{d}^{\mathrm{c}}} \right) ^{2}} = b + \left( \frac{2p_\mathrm{d}^{\mathrm{c}} \right) ^{\mathrm{c}} } \left( \frac{2p_\mathrm{d}^{\mathrm{c}}} \right) ^{2} = b + \left( \frac{2p_\mathrm{d}^{\mathrm{c}} } \right) ^{\mathrm{c}} } \left( \frac{2p_\mathrm{d}^{\mathrm{c}}} \right) ^{\mathrm{c}} } \left( \frac{2p_\mathrm{d}^{\mathrm{c}} } \right) ^{\mathrm{c}} } \right) ^{\mathrm{c}} } \left( \frac{2p_\mathrm{d}^{\mathrm{c}} } \right) ^{\mathrm{c}} } \left( \frac{2
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Using (43) and (44), we may therefore write (41) as

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From (4), (6), (8) and (44), one finds that
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(48)

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