

$$A_1 = 4000 + (1+i)4000 + (1+i)^2 4000 + (1+i)^3 4000$$

$$= 4000 [1 + (1+i) + (1+i)^2 + (1+i)^3]$$

$$S = \frac{1q - a}{q - 1} = \frac{(1+i)^3 (1+i) - 1}{(1+i) - 1} = \frac{(1+i)^4 - 1}{i}$$

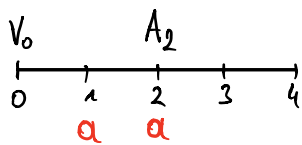
$$A_1 = 4000 \frac{(1+i)^4 - 1}{i}$$

$$V_0 = (1+i)^{-4} A_1$$

$$= (1+i)^{-4} \cdot 4000 \frac{(1+i)^4 - 1}{i}$$

Pour $i = 6\%$: $V_0 = 1.06^{-4} \cdot 4000 \cdot \frac{1.06^4 - 1}{0.06}$

$$= 13\,860,42 \text{ €}$$



$$A_2 = a + (1+i)a$$

$$= a \frac{(1+i)^2 - 1}{i}$$

$$13\,860,42 = 1.06^{-2} \cdot a \frac{1.06^2 - 1}{0.06}$$

$$a = 13\,860,42 \cdot 1.06^2 \cdot \frac{0.06}{1.06^2 - 1}$$

$$= \underline{\underline{7559,98 \text{ €}}}$$