

à $T=1000^{\circ}\text{C}$:

$$\frac{n_{\text{liq}}}{72-40} = \frac{n_{\text{SS}}}{40-15} = \frac{n_{\text{Liq}} + n_{\text{SS}}}{72-15}$$

$n_{\text{Liq}} = (72 - 40) \cdot (n_{\text{Liq}} + n_{\text{SS}}) / (72-15) = 0,561 \cdot (n_{\text{Liq}} + n_{\text{SS}})$ moles
Liquide (15% mol. Au)

$n_{\text{SS}} = (40 - 15) \cdot (n_{\text{Liq}} + n_{\text{SS}}) / (72-15) = 0,439 \cdot (n_{\text{Liq}} + n_{\text{SS}})$ moles
SS (72%mol. Au)

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Liquide (15% mol. Au)

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SS (72%mol. Au)

$n_{\text{tot}} = (n_{\text{Liq}} + n_{\text{SS}})$ Correspond à un mélange de
10 g contenant 40%mol. Au)

$$n_{\text{tot}} = \frac{10}{M_{40\% \text{Au}}} = \frac{10}{0,40 \cdot M_{\text{Au}} + 0,60 \cdot M_{\text{Ag}}} = 0,07 \text{ moles}$$

$M_{\text{Au}} = 196, \quad M_{\text{Ag}} = 107,87 \quad \text{g/mol}$

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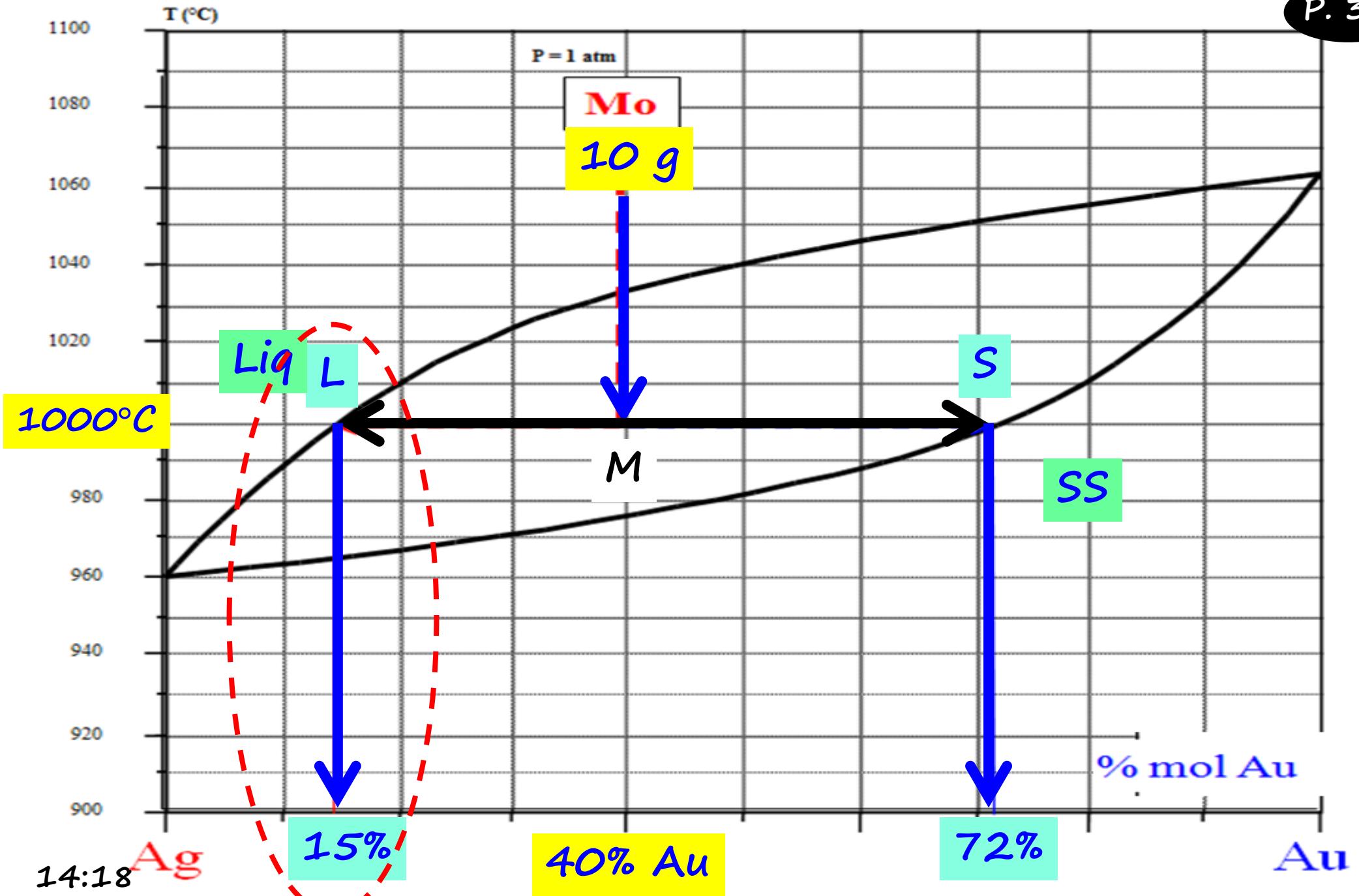
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$M_{\text{Au}} = 196, \quad M_{\text{Ag}} = 107,87 \quad \text{g/mol}$

$$n_{\text{liq}} = 0,561 \cdot 0,07 = 0,039 \text{ mole}$$

$$m_{\text{liq}} = n_{\text{liq}} \cdot M_{\text{liq}}$$

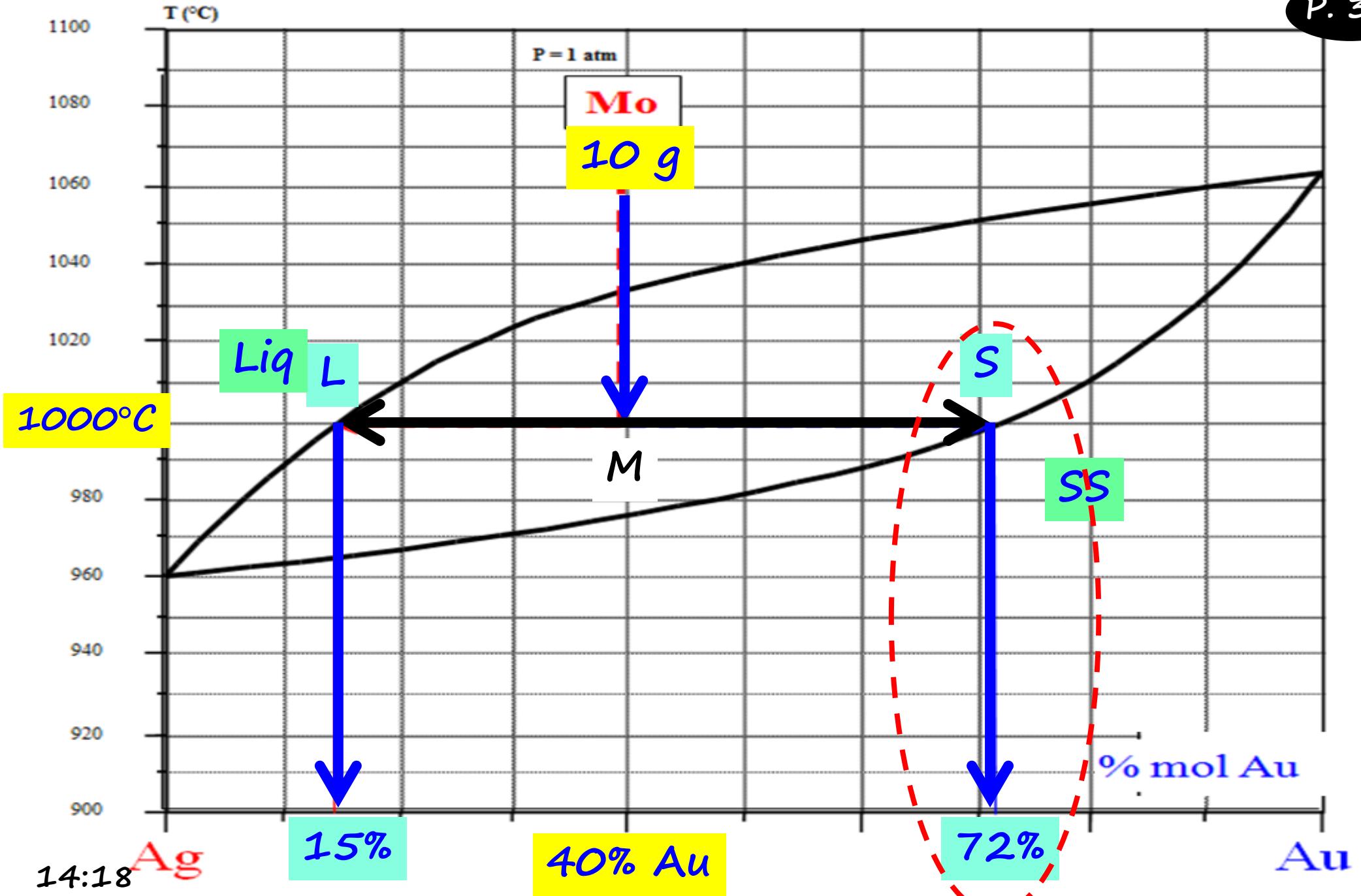
$$M_{\text{liq}} ?$$



$$\begin{aligned}m_{\text{liq}} &= n_{\text{liq}} \cdot M_{\text{liq}} \\&= n_{\text{liq}} \cdot (0,15 \cdot M_{\text{Au}} + 0,85 \cdot M_{\text{Ag}})\end{aligned}$$

$$m_{\text{ss}} = n_{\text{ss}} \cdot M_{\text{ss}}$$

$$n_{\text{ss}} = 0,439 \cdot 0,07 = 0,031 \text{ mole}$$



$$m_{\text{liq}} = n_{\text{liq}} \cdot M_{\text{liq}}$$

$$= n_{\text{liq}} \cdot (0,15 \cdot M_{\text{Au}} + 0,85 \cdot M_{\text{Ag}})$$

$$m_{\text{ss}} = n_{\text{ss}} \cdot M_{\text{ss}}$$

$$= n_{\text{ss}} \cdot (0,72 \cdot M_{\text{Au}} + 0,28 \cdot M_{\text{Ag}})$$

Vérification: $m_{\text{ss}} + m_{\text{liq}} = 10 \text{ g}$

