

Lögmál Wiedemanns og Franz - Svarblað

Hluti A: Rafleiðni kopars, áls og látúns (1,5 stig)

A.1 (1.0 pt)

Falltími síseguls:

Númer	Kopar	Ál	Látún

A.2 (0.5 pt)

	Kopar	Ál	Látún
Rafleiðni			

Hluti B: Varmaleiðni kopars (3,0 stig)

B.1 (0.1 pt)

Stöng 1 hitastig :

B.2 (0.5 pt)

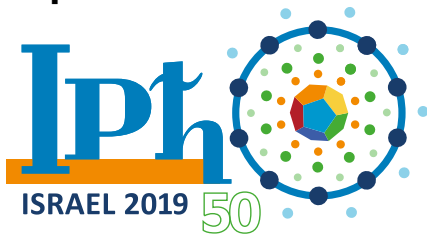
Blank area for answer B.2.

B.3 (0.1 pt) $P =$ **B.4** (0.5 pt)

Tími	T_1	T_2	T_3	T_4	T_5	T_6	T_7	T_8

B.5 (1.0 pt)

Gerðu graf (á millimetrapappírinn) af hitastigi sem fall af staðsetningu.



B.6 (0.5 pt)

$$\kappa_0 =$$

$$\frac{\Delta T}{\Delta t} =$$

B.7 (0.3 pt)

Teiknaðu hring um rétta svarið:

$$\kappa > \kappa_0 \text{ or } \kappa < \kappa_0 \text{ or } \kappa = \kappa_0$$

Hluti C: Mat á varmatapi og eðlisvarma kopars (4,0 stig)

C.1 (1.0 pt)

[illegible]

C.2 (1.0 pt)



C.3 (1.0 pt)

Expression:

$$c_p =$$

$$P_{loss} =$$

Value:

$$c_p =$$

$$P_{loss} =$$

C.4 (1.0 pt)

Jafna:

$$\kappa_{kopar} =$$

Gildi:

$$\kappa_{kopar} =$$

Hluti D: Mæling á varmaleiðni látúns og áls (1,0 stig)

D.1 (0.1 pt)

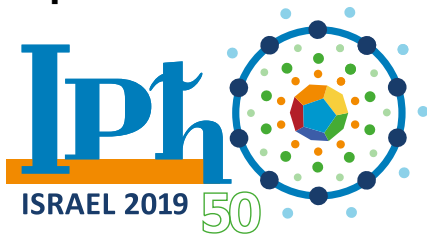
Stöng 2 : $T =$

D.2 (0.2 pt)

Tími þegar aflestur fór fram :

T_1	T_2	T_3	T_4	T_5	T_6	T_7	T_8

$\Delta T_{Kopar-1}/\Delta x$	$\Delta T_{Ltn}/\Delta x$	$\Delta T_l/\Delta x$	$\Delta T_{Kopar-2}/\Delta x$

**D.3** (0.7 pt)

Jafna:

$$\kappa_l =$$

$$\kappa_{Ltn} =$$

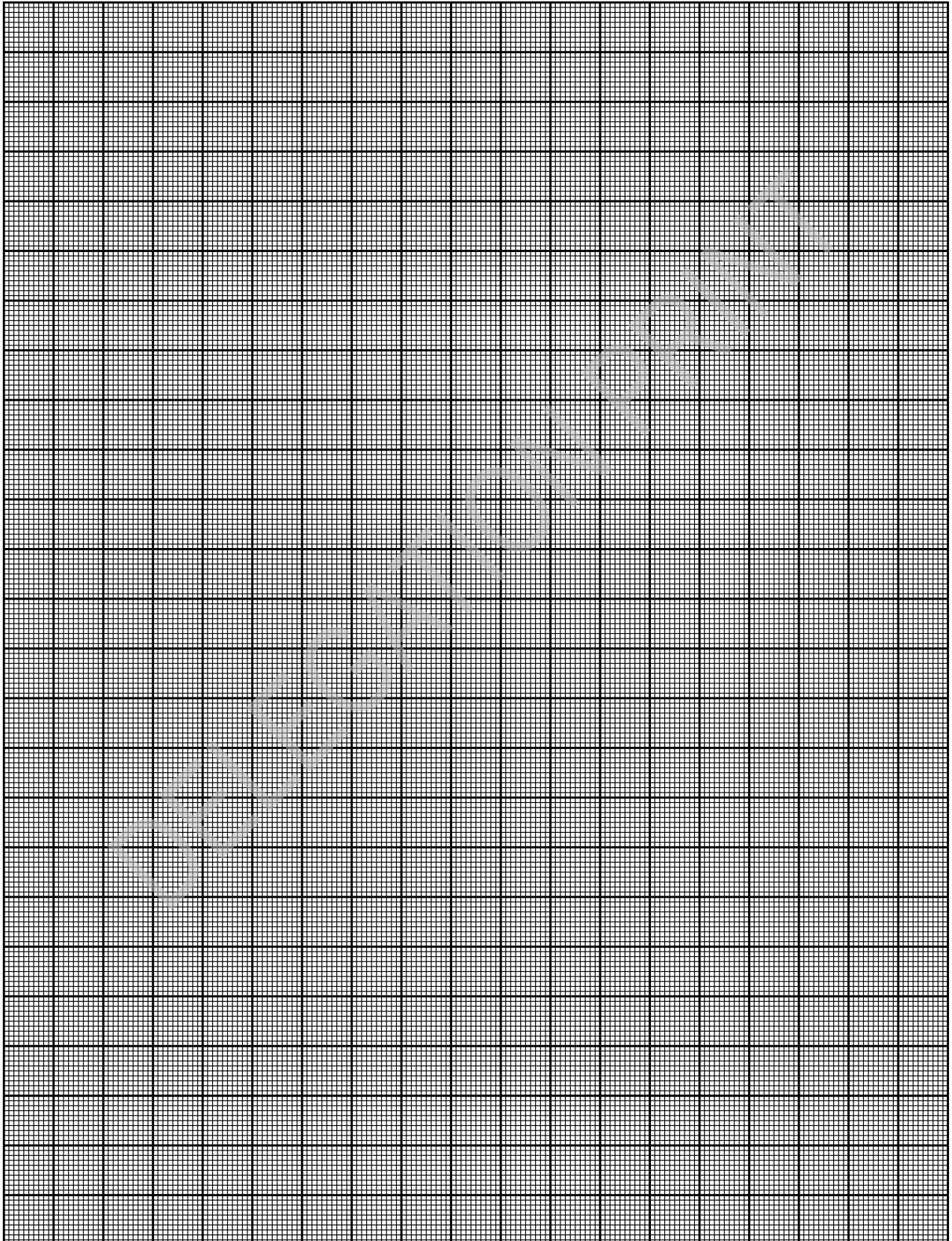
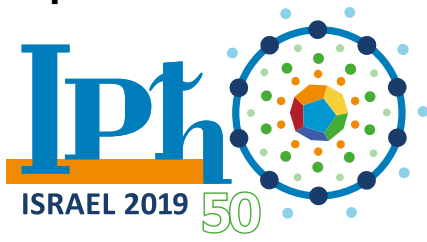
Gildi:

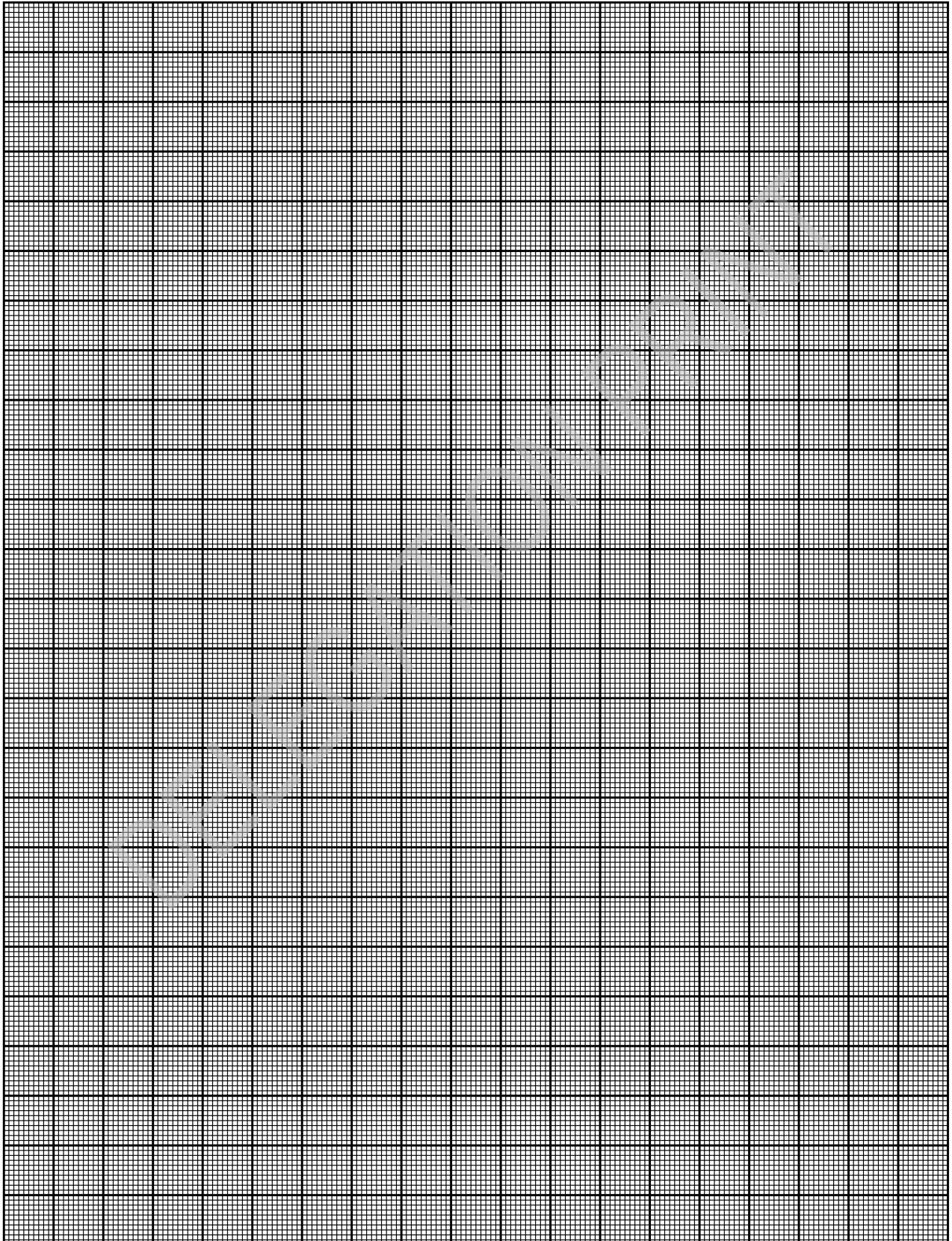
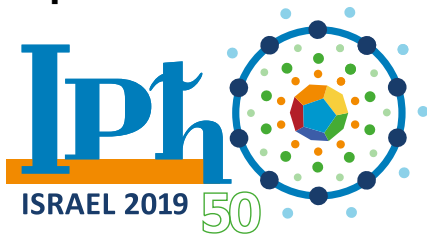
$$\kappa_l =$$

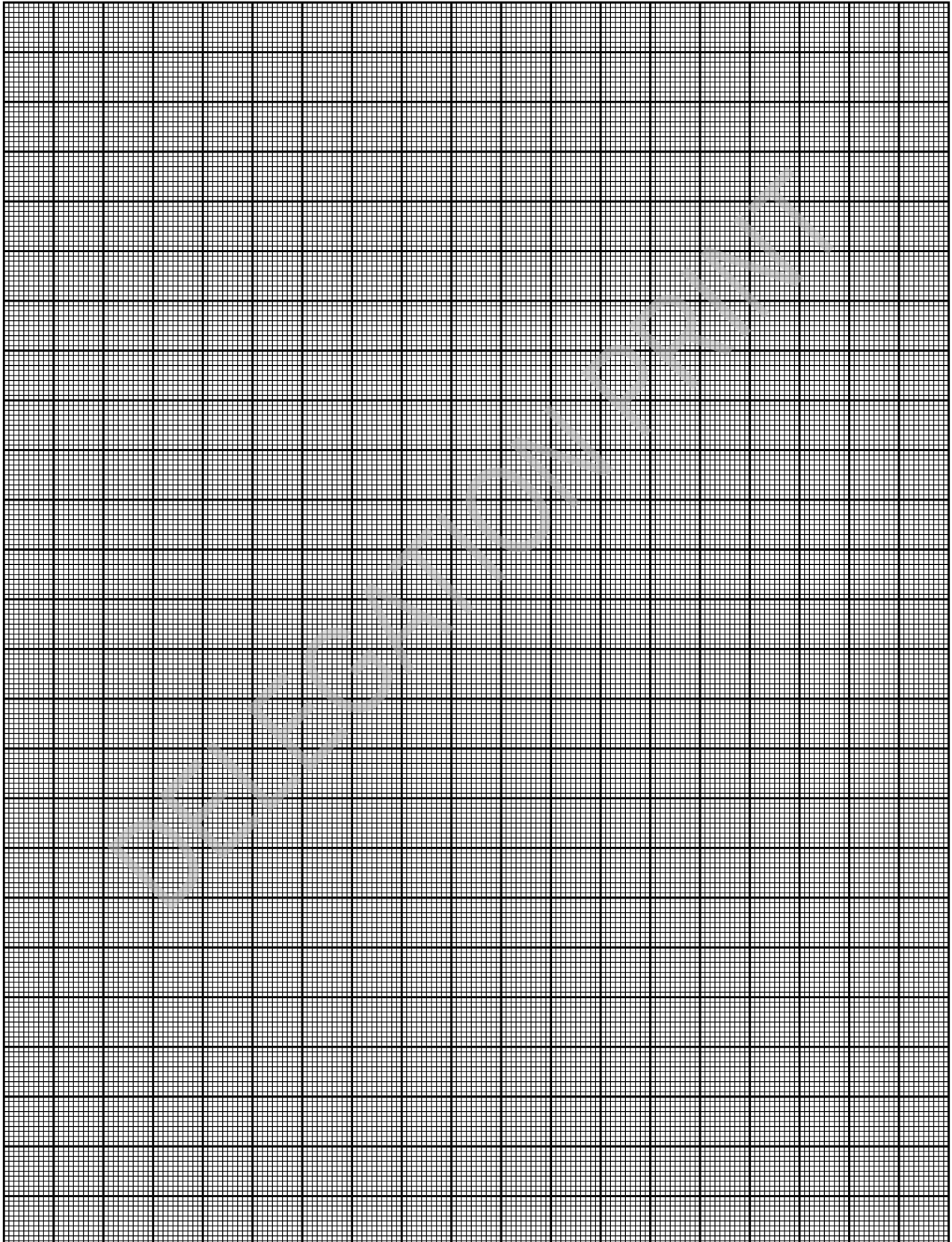
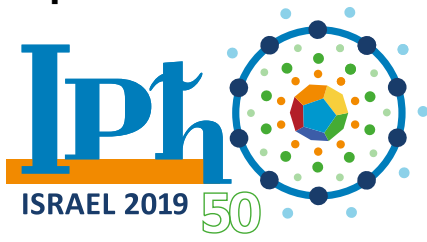
$$\kappa_{Ltn} =$$

Hluti E: Lögmál Wiedemanns og Franz (0,5 stig)**E.1** (0.5 pt)

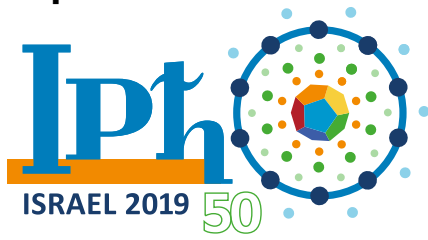
	Kopar	Ál	Látún
Rafleiðni			
Varmaleiðni			
Lorenz fastinn			







Experiment



A2-10

Icelandic (Iceland)

