## Feno filter - Overvew

	Objective: Investigate / design the possibility
	Objective: Invedede / denign the possibility  of a microphatic filter une persofued adheren
	adhenen
-	tasks:
•	- duana derze micro plate rupenous  - Concertatos, vice dartitution
	- Concedentos, vice destritution
	- Chanaderze homenede jens fluid  - Determise X, Z, P, V, &  perophid oil
	- Determise X, Z, P, D, &
	knowled oil
	1 - 7 - 7

- Derign, execute and windok experied (calle do)

- Validato pinulaters

- Prolining irraght into the performance

- Dergn and nimite vertex juster
- compare putation efficiency vs other witeds

- Pros ad coms - Salability, applications

Simulatas Jeunel a "rimple" Z - phone redel:

water + proflect

(might reed 3-phone redel: + wz) Overy Afe Py to relie PDE

( finite elevels, weak familities) 107 "big" rimbalen -> can have wany known · mulpk bloks

flow

likeli nize Inhelerce . feld Augh wh fere flud, lit reduce flow experiete prantes: 2, 2, e, V, 8

$$\frac{\partial_{+} \vec{m} + (\vec{\mu} \cdot \vec{p}) \vec{m} = - /_{2} (\vec{m} - \chi_{0} \vec{n}) (0)}{- \Delta \theta = \vec{\partial} \cdot (\vec{m} - k_{0})} \tag{D}$$

(A)

(B)

$$-\Delta \psi = \vec{\partial} \cdot (\vec{m} - \vec{k}_a) \qquad (D)$$

$$\vec{\partial}_{+} \vec{u} + (\vec{\mu} \cdot \vec{\sigma}) \vec{u} - \vec{\partial} \cdot (\vec{\nu}_{\theta} + \vec{\nu}_{\theta}) + \vec{\partial} p \qquad (E)$$

$$\frac{\partial_{+}\vec{u} + (\vec{\mu} \cdot \vec{r})\vec{u} - \vec{r} \cdot (\vec{v}_{\theta} + \vec{r}(\vec{u})) + \vec{r}p}{= \mu_{0} (\vec{m} \cdot \vec{r})\vec{h} + \lambda/\epsilon \theta V \psi}$$
(F)

$$= \mu_0(\vec{m} \cdot \vec{P}) \vec{h} + \lambda/\epsilon \theta \nabla \psi$$

$$\vec{J} \cdot \vec{n} = 0$$
(F)

