```
Breuil-Schraen L-invariants for GLn [E: 0,7 <+10
           p: Gal(Qp/Qp) -> GLn(E) = ("certain" adm unitary Banach reps of)
                                 bijetion

Glacop)

Joc an vector

A s''certain' adm locally analytic reps

of Glacop)
      1<sub>7</sub>: T(cop) → E<sup>x</sup>
    \left( I_{n} \right)_{B(O_{p})}^{GL_{n}(O_{p})} 1_{T}^{\alpha n} := \left( B(O_{p}) \setminus GL_{n}(O_{p}), E \right)
         has one-parameter
h=2 \qquad \rho = \begin{pmatrix} s & * \\ & 1 \end{pmatrix} \qquad \text{sense} \qquad \rho = \begin{pmatrix} s & * \\ & 1 \end{pmatrix} \qquad \text{hon-split}
Gap:=Gal(aprop) Ext (1, 8) 2-dim
               Homount (Gop, E) logp, valp
        subquoteet of cx) V. st
                          stan -> V -> 16/2
```

Then (Brevil)
$$\text{Ext}_{GL(Q)}^{1}(1_{GLL}, St_{2}^{an}) \stackrel{\triangle}{\sim} \text{Hom}_{cont}(Q_{p}^{x}, E)$$
 $P = \begin{pmatrix} 2 & 1 \\ 1 \end{pmatrix}$ N E-line in $\text{Ext}_{GQ}^{1}(1, 2) \stackrel{\triangle}{=} \text{Hom}_{cont}(Q_{p}^{x}, E)^{V}$
 E-line in $\text{Hom}_{cont}(Q_{p}^{x}, E)$ N $\text{St}_{2}^{an} \hookrightarrow V \rightarrow 1_{GL_{2}}$
 Heavil-Dirg explit reps f-inv Ext^{4} classes

 Revil-Dirg explit reps f-inv explit reps f-inv reps f-inv reps f-inv reps f-inv reps f-inv reps $\text{f-in$

Show the six
$$P_{i,j} \rightarrow GL_2$$
 (Ind $P_{i,j} \lor D$) = $V_{i,j}^{an}$ | $V_{$

```
Schraen's choice Wk

E-line in ExtGls (Vily, Stz) for each k=1,2
                                              E-line W3 = ExtGl3 (1G12, V#)
                                W_1 = k^{-1}(W_3) \subseteq Ext_{GL_3}^2(1_{GL_3}, St_3^{an})
Made a stupid mistake in the talk and \mathbb{Z}_{s} \mathbb{Z}
                                                     W, We determes K, W3= K(W) dim Im(Cup = 2
                                     Reformulation WS Exten (1, Stan)
                                   General n: Ex+G_{Ln}(1_{GLn},S+_n^{\alpha n}) (S+_n^{\alpha n}=N_{\Phi}^{\alpha n})
                                            define B-S Linv hyperplane W (with further conditions
                                                             compatibility with
               I2I'2I"
                                                     * Cup is always injective
                                                     * # I/I' = 1 Ext ( ... ) = Homent Clop, E)
                                                      * when is cup III's an isom
                                                      * colernel of D cup_I, I', I'
```