Blatt 13 Aufgabe 27 mit fr(4)=cos4 =a, f, (4) + az fz (4) 12 (4) = SUR 4 fc4) = A° CO2(+ 8) six (0°) A = (cos(60°) sبرد عه) 12 J314 $a) \ \ \ \, \forall = \left(\begin{array}{c} \chi^{\prime}(x^{\prime}) & \chi^{\prime}(x^{\prime}) \\ \chi^{\prime}(x^{\prime}) & \chi^{\prime}(x^{\prime}) \end{array} \right)$ sv (60°) 5312 112 *دېرد ۳۰°*) 0 (۱۵۵ مر مرکوه) 5312 - 412 suic 1506) (05(450°) -5312 412 0 CO 5 (180°) SU (180°) -v312 مند دعته ۱ -1312 -112 -1 - 5312 112

b) disurg svektor â berecknen: (cos(3300) sin(3800) / (cos(3300))

53 B

€.AT 2×12

2 = D, y

C) KGVarianzmatrix V[a] , fencer von a, und az, un Horrelationskræft bestimmen

V[â] = σ² (Α^TΑ) (aus Voriesung) σ=0,0 ΛΛ Λ: pesignmatrix (Λ^TΑ) bereits in b) berechnet -> (a 1/6) => V[â] = (0 ΛΛ (000) σου ΑΛ (33.Λ0-3)

$$G_{\alpha \lambda} = \sqrt{\lambda M (6000)} \qquad E_{\alpha \lambda} = 0,043$$

$$G_{\alpha \lambda} = \frac{1}{2} \frac{1}{2$$

d) Ag, S und Fehler & Kornelation aus an und az berecknen 8 - A0 COS(4+8)= A0 COS4 (05 - A0 Six4 six 8

$$a_{\lambda} = A_{0} \cos \delta$$
 $a_{\lambda} = A_{0} \cos \delta$
 $A_{0} = \frac{a_{\lambda}}{\sin \delta}$
 $A_{0} = \frac{a_{\lambda}}{\sin \delta}$

$$a_{\lambda} = A_{0} \cos \delta$$

$$a_{\lambda} = -A_{0} \sin \delta$$

$$A_{0} = -\frac{\alpha z}{\cos \delta}$$

$$A_{0} = -\frac{\alpha z}{\sin \delta}$$

$$A_{0} = -\frac{\alpha z}{\cos \delta}$$

$$= \int \frac{1}{2} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) = \left(\frac{1}{2} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} + \frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right)^{2} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}} \right) + \left(\frac{\partial A_{0}}{\partial \alpha_{0}}$$

$$\sigma_{A} = \sqrt{6(665.40)^{2}} + \sqrt{\frac{624}{92497}} = 0.104$$