| nsions of 4 configures of classified cate (Au) (Aw) + + + + + + - + + - + + + + + + + | egories stripe for ea | nch unit according i | to observed categorie | Σ (ο %) | e% = 6,25% | $\chi^2 = \Sigma (0-6,25)^2$: | 6,25 α<5%; *7,81 *7,81 *7,81 *7,81 *7,81 *7,81 *7,81 *7,81 *7,81 *7,81 | α < 1% **13,3 **13,3 **13,3 **13,3 **13,3 **13,3 | α < 5% ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | α < 1% | α; 1 ^{st/2} | ~ 2 ^{nd/2} |
|--|----------------------------|-------------------------|--|----------------|------------|--------------------------------|--|---|--------------------------------------|------------------------|--|---------------------|
| + + + + + + + + + + + + + + + + + + + | + - + - + - + + | | | | | | *7,81 *7,81 *7,81 *7,81 *7,81 *7,81 | **13,3 **13,3 **13,3 **13,3 **13,3 | ~ ~ ~ ~ ~ ~ ~ | ~ ~ ~ ~ ~ ~ | | |
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| - - | + | | | | | | *7,81 | **13,3 | ~ | ~ | | |
| ; 2x Halbierungs-Iterat | | ge configuration patter | ems 1st & 2nd half | Σ (0%) | e % = 25% | (o-25) ² : 25 | <u>*7,81</u> *5%; 3 df | _**1 <u>3</u> ,3 **1%; 3 df | *5%; 1df | ~ <u>~</u> *1%; 1df | 1. Hälfte | |
| + | | | 3447711101114111011101111111111111111111 | 1 | | | -··+··-·- | · | *3.84 | **6.64 | 1 | === !!! |
| <u>-</u> | | | | | | | ~ | ~ | | | | |
| + | | 1 | | | | | ~ | ~ | , | , | | |
| ; <u>2</u> ; | - ▼ k Halbierungs-Itera | - | | - | | | | - | - | - | *7,81 **13,3 ~ ~ ~ * Halbierungs-Iteration (BIP): percentage configuration patterns 1st & 2nd half première moitié (1e m.) deuxième moitié (2e m.) *7,81 **13,3 ~ ~ ~ ~ * *13,3 ~ ~ ~ ~ ~ * *13,3 ~ ~ ~ ~ ~ * *14,5 3 df **1%; 3 df **1%; 1 df ** | - |

Attachment BIM X to: window "La transcendance, qui n'est pas g'une » (On author's WEB-site).

Appendix.
Elaborated configurationfrequency-analysis, e-KFA

Algorythm after a hectographed contribution in a seminary lesson on social cognitions and behaviour at psychological institute, university of the Saar, Saarbrücken, summer-semester, 1975

by Kurt-Wilhelm Laufs, ©, updated an English version 2014-11-02

At a first glance, e-KFA could remind Cochran's Q-sort, yet is not.

KFA had been formulated by Krauth & Lienert about 1971 to typologize and to analyse

by chi-square and binominal distribution.

KFA Critics on (Konfiguration – Frequenz -Analyse) followed had lexically (Clauss, G. & al., 1976: Wörterbuch der Psychologie. VEB Verlag Enzyklopädie, Leipzig. Pahl-Rugenstein, Köln, 1976), and described the problem to smaller or larger number of checked persons or items than about N ~ 40 .

This numerical methodical KFA inherent problem really can be avoided, if instead of absolute numeri one calculated in percentages, so one could also analyse rather approprietly, both, smaller samples than N ~ 40, or larger samples than N ~ 40.

Author's KFA elaboration shows examples, how apply e-KFA in psychology, psychological and field research, and also as a practitioner's method, without any electrical computer, just hand calculations combinations of hypotheses social any in and psychological field.

Do it yourself!

1st you define your most possible to observe terms, categories, or dimensions, according to valid theories &/or objective items.

2nd you take the amount (number) of categories to form plus-minus (yes/no answers or signatures as plus/minus) combinatoric configuration-matrices. A two

configuration-matrix (KF) makes four possible configurative combinations: (++; +-; -+; --), a three KF shows eight configurative combinations (+++; ++-; +-+; +--; -++; ---) etc. Above algorythm sheed shows four configurations with sixteen possible of "yes" &/or "no" configurations of, combinatorically, etc.

Why now KFA elaborated, behalf to calculate in percentages? When 4-configurations were by split half (bi-partation) analysed after chi-square, only significant values in row after split half iteration were valid, thus a four-configuration must be equally significant at

least after chi-square BIP controll in it's both parts divided in two configurations. The lowest significance in row determines here the significance of all a four-configuration row.

Percentage calculation as appropriate to social and psychological data (always in mind that "nasty" scaling problem and of objectivity), claims percentages for numbers of observed data and to expecting values of a distribution as inference model.

When social data or psychological data in practice or social fields occur, that phantasm of normal or binominal distributions can

even more appropriate and more rapidly be calculated by inference of equal distribution. Thus: 100% of postulated expecting inference (e) be to twoconfigurational percentage number observed (o) data, as 100% by 4 (number of possible combinations) = 25% expectation value (e); for 3-configuration's observed percentages (o) and it's possible combinations 100% by 8 = 12.5% (e); four configuration's e = 6,25 %; (100%:16).

When one will look for α errors of significancy in one's statistical tables on chi square, degrees of freedom (df; FG) depend here on

number of configurations: two-configurations make 2 – 1 = 1 df; three-config. show 3-1 = 2 df; and fourconfigurative calculations make subtract one from four and show three degrees of freedom at it's table value for significance.

This appropriate and rather quick method to calculate shows very satisfying approximations to much more complicated factor analyses and also can be applied to control rapidly factor analyses by hand calculation without electronic computers, and also efficiently can be applied in social fields, on park banches, and in practice, to bundle data

and test it's significance, without scaling and interpretation problems those problems typical to factor analysis of communality and rotation. Nevertheless one could bundle e-KFA results again by a factor analysis.

To rapid e-KFA percentages can be done inter-correlations to it's results in rows (types/factors) and columns (factorial categories, items, dimensions), and an arithmetical (or geometrical) mean coefficient can describe consistency (as well as a communality) coefficient.



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No e-mails, rather picture postcards, please!