
Subject: POLYWARP question.

Posted by [Octavi Fors](#) on Mon, 14 Jun 1999 07:00:00 GMT

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Hi everybody,

<p>this is regarding POLYWARP function, in particular DEGREE argument.

As far as I

understood by the Online Help, POLYWARP accepts the following polynomial models

depending on the value of DEGREE:

<p>DEGREE = 0:

 $X = kx_0$

 $Y = ky_0$

<p>DEGREE = 1:

 $X = kx_0 + kx_1$

+ kx_1 $Y = ky_0 + ky_1$

+ ky_1 $X = kx_0 + kx_1$

+ ky_1 $Y = ky_0 + ky_1$

+ ky_1 $X = kx_0 + kx_1$

+ ky_1 $Y = ky_0 + ky_1$

+ ky_1 $X = kx_0 + kx_1$

+ ky_1 $Y = ky_0 + ky_1$

+ ky_1 $X = kx_0 + kx_1$

+ ky_1 $Y = ky_0 + ky_1$

<p>DEGREE = 2:

 $X = kx_0 + kx_1 + kx_2$

+ kx_2 $Y = ky_0 + ky_1$

+ ky_2 $X = kx_0 + kx_1$

+ ky_2 $Y = ky_0 + ky_1$

+ ky_2 $X = kx_0 + kx_1$

+ kx_2 $Y = ky_0 + ky_1$

+ ky_2 $X = kx_0 + kx_1$

+ ky_2 $Y = ky_0 + ky_1$

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+ ky_2 $X = kx_0 + kx_1$

+ ky_2 $Y = ky_0 + ky_1$

+ ky_2 $X = kx_0 + kx_1$

+ ky_2 $Y = ky_0 + ky_1$

+ ky_2 $X = kx_0 + kx_1$

size=-1>o</sub>Y_o

+ k_{y02}X<font
size=-1>_o²+
k_{y20}Y_o²

+ k_{y12} X_o<sup>2
</sup>Y_o + k_{y21}X_{o}Y<font
size=-1>_o²+
k_{y22} X_o<sup>2
</sup>Y_o²

<p>This is fine, but poor in flexibility: what happens if I want to consider
a model like this, which accounts for 1st. degree crossed XY terms and 2nd.
degree in X and Y?

<p>X_{i} = k_{x00}
+ k_{x01} X_o
 k_{x10} Y_o
 k_{x11} X<sub><font
size=-1>o</sub>Y_o

+ k_{x02}X<font
size=-1>_o²+
k_{x20}Y_o²

Y_{i} = k_{y00}
+ k_{y01} X_o
 k_{y10} Y_o
 k_{y11} X<sub><font
size=-1>o</sub>Y_o

+ k_{y02}X<font
size=-1>_o²+
k_{y20}Y_o²

<p>Does anybody know any implementation/patch of POLYWARP which permits
more freedom in considering

coeficients to obtain?

<p>Thanks in advance,

<p>Octavi.

<p>=====

<p>Octavi Fors Aldrich

<p>Departament d'Astronomia i Meteorologia

Facultat de Fisica

Avgda. Diagonal 647

08028 Barcelona

SPAIN

<p>Telf: 34-934021122

Fax: 34-934021133

e-mail: octavi@fajnm1.am.ub.es

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