



▪ ExtCM_0_1A_2B = 3, ExtCM_Fibo = 0.382



Analyzing history on EURUSD, Daily since 1989 - ZUP_v54 c parameters Extindicator=6, minBars=25 had been constructed 103 triangles in which

- At $AB > BC$ the point 1 gets out from a vertical from top In on value 0,618 (31 triangle)
- At $AB < BC$ the point 1 gets out on a vertical from top In on value 0,382 (31 triangle)

Also it was observed, that at the punched channels changes values fibo for 1 point with 0,382 on 0,618 and on the contrary (change of a trend direction), and also value 0,5 at flat (40 triangles).

The mode 3 is useful at very fast tops - differently the channel looks under very sharp corner...

I wish to share one in my opinion the important supervision. In a mode of construction of channels 4 (it is possible and in others, but this is automated) the price ALWAYS! Reaches the price at a level of crossing RL 161, 8 with a median of the channel and almost always in range RL 100 - 161,8.

Has brought above some citations from messages micmed'a. It is made for the best understanding of job of the new graphic tool Channels micmed'a. fibo levels are deduced on the schedule that it was visible algorithm of construction of channels. ZUP with the given graphic tool fibo levels does not deduce.

Versum Levels.

This graphic tool has suggested to make versum - the participant of forums KBPauk and ONIX. Quite probably, that this tool is realized by others. In ZUP this tool has the name Levels versum'a.

Parameters:

- **ExtVLStaticColor** - includes Versum Levels static a choice of color
- **ExtVLDinamicColor** - turning on Versum Levels dynamic a choice of color
- **ExtVLStaticNum** - sets number of top from which are deduced static Versum Levels

This tool supplements Andrews pitchfork and reminds a fan fibo. Also, as well as at twisted Andrews, its job is constructed around of a median line. A median line twisted Andrews and 50 % a level VL coincide. An example of construction dynamic VL. fibo levels are deduced on the schedule that the algorithm of construction of this graphic tool was visible. ZUP with the given graphic tool fibo levels does not deduce.



I shall bring citations from messages versum'a:

It is possible to name and a fan, that is the lines missing from one point. It is possible to name and the xн«-fan since I use a piece which is crossed with these lines, divided by levels Fibonacci (the tool which was near at hand)... On Pиc1 it is visible that piece BC shares on intervals by means of fibo.. Through points of crossings fibo. and piece BC from the previous peak (hollow) a point And lines are spent. These are levels on which the price is expected.

What do we have?

1. The levels (most important) changeable in time
2. From these variations also develop Gartley Patterns and other other figures and models but which are visible already "after"
3. Prospective development of the tendency.

How it to use?

If the price was made even or has exceeded a level of a line of 50 % (the divided 50 % passing through a point a level) can be spoken that (not from 100 % probability certainly) about continuation of the tendency. If is not has reached a line of 50 % that about change of the current tendency...

Remarks:

1. The Turned out levels I do not use rigidly down to pip. It seems to me is necessary to consider more likely as area.
2. Levels Fibonacci too I do not consider as panacea. Probably, other parities of division of a piece will yield the best results.

Any fibo Fan

Except for fibo fans working together with Andrews pitchfork there is an opportunity of inclusion fibo the fans working independently. These fibo Fan are deduced on first nine beams ZigZag or on first 10 extrema ZigZag. Join a choice of color by means of parameter ExtFiboFanColor. The arrangement of these fans gets out in parameter ExtFiboFanNum.



Enhanced mode

Most effectively to spend the analysis of the market when peaks and hollows ZigZag concern to one wave level. When all constructions are done at one wave level. Often there are situations when ZigZag identifies peaks and hollows as though "superfluous" for the given wave level. From "superfluous" extrema to build the tools which have been built in ZUP, it is not desirable. This subject demands separate research and is opened for all comers...

To build tools from the "necessary" extrema and enhanced mode is made. In enhanced mode following tools work:

1. Static pitchfork
2. Static fibo.
3. Static expansions Fibonacci
4. Any Fibolevels
5. Levels Versum
6. Channels micmed'a

The complete set twisted Andrews is everything, that is connected with pitchforks. Lines of the complete set twisted are under construction with a binding to the certain points twisted. For example, control lines are spent from the first, initial, points twisted through the second or third points twisted. In enhanced mode all lines will become attached to corresponding points twisted where these points were.

If to set parameters at all five tools working in enhanced mode how these parameters earlier no differences of that was earlier, will exist were set.

In enhanced mode:

1. For static twisted instead of one figure specifying the first top from which are under construction pitchfork, it is necessary to specify three tops. It will look, for example, so ExtPitchforkStaticNum=741.



Thus the top 7 - corresponds to the first point twisted, the hollow 4 - corresponds to the second point twisted, the top 1 - corresponds to the third point twisted. 50 % the median in this case was constructed from a midpoint, the uniter of a point 1 and 2 twisted (7-th and 4-th extrema ZigZag), and passes through a midpoint, the uniter of 2 and 3 points twisted (4-th and 1-st extrema ZigZag). Lines of reaction are adhered to 2 and 3 points twisted.

If last figure in parameter ExtPitchforkStaticNum will be more than 0 will be deduced static pitchfork. If = 0 pitchfork will be under construction dynamic. But as soon as there will be new beam ZigZag, pitchfork will turn in static. If after transformation dynamic twisted in static to change what or parameters of the indicator will be again deduced dynamic pitchfork.

The essential moment. Figures (741) should alternate peaks and hollows. pitchfork will not be constructed, if successively two peaks or two hollows will be specified. That is even and odd figures should alternate.

2. For static fibo. in enhanced mode in parameter two extrema ZigZag on which is under construction fibo.level are specified. Example ExtFiboStaticNum=72.



3. Static expansions Fibonacci in enhanced mode are under construction on three extrema ZigZag. An example: ExtFiboExpansion=721.



In this example expansions Fibonacci such what are under construction in the Metatrader are brought. But if the conclusion fibo. (the tool 2)) and ExtFiboCorrectionExpansion = true instead of fibo. expansions Fibonacci will be deduced also is made. However in this case expansions are under construction on two points. And these expansions correspond to the expansions described in the book of Robert Fisher " New methods of trade on Fibonacci ".

4. Any fibo Fan in enhanced mode is under construction on two extrema. An example: ExtFiboFanNum=74



5. Levels Versum



6. Channels micmed'a



Once again I shall emphasize:

For all tools in enhanced mode it is necessary to alternate peaks and hollows. For two successively peaks or hollows the tool will not be constructed. Successively - here means successively two figures designating extrema in parameter.

All tools in enhanced mode can be both static and dynamic. If in the set parameter last figure will be 0 the tool will dynamically change.

Arches Fibonacci

In version ZUP_v63 turned an opportunity to build arch Fibonacci. Further in article parameters from version ZUP_v63 will be used.

Parameters:

- **ExtArcDinamicNum** - sets number of crises ZigZag up to which are under construction dynamic fibo arches;
- **ExtArcStaticNum** - sets number of crises ZigZag on which are under construction static fibo arches;
- **ExtArcDinamicColor** - sets color dynamic fibo arches;
- **ExtArcStaticColor** - sets color static fibo arches;
- **ExtArcDinamicScale** - sets scale dynamic fibo arches: 0 - autoscale;> 0 - the scale is set by the user;
- **ExtArcStaticScale** - sets scale static fibo arches: 0 - autoscale;> 0 - the scale is set by the user.

At arches two anchors.

- For parameter ExtArcStaticNum=21:

2 - the point of the center of a static arch, specifies number of top or a hollow of a zigzag

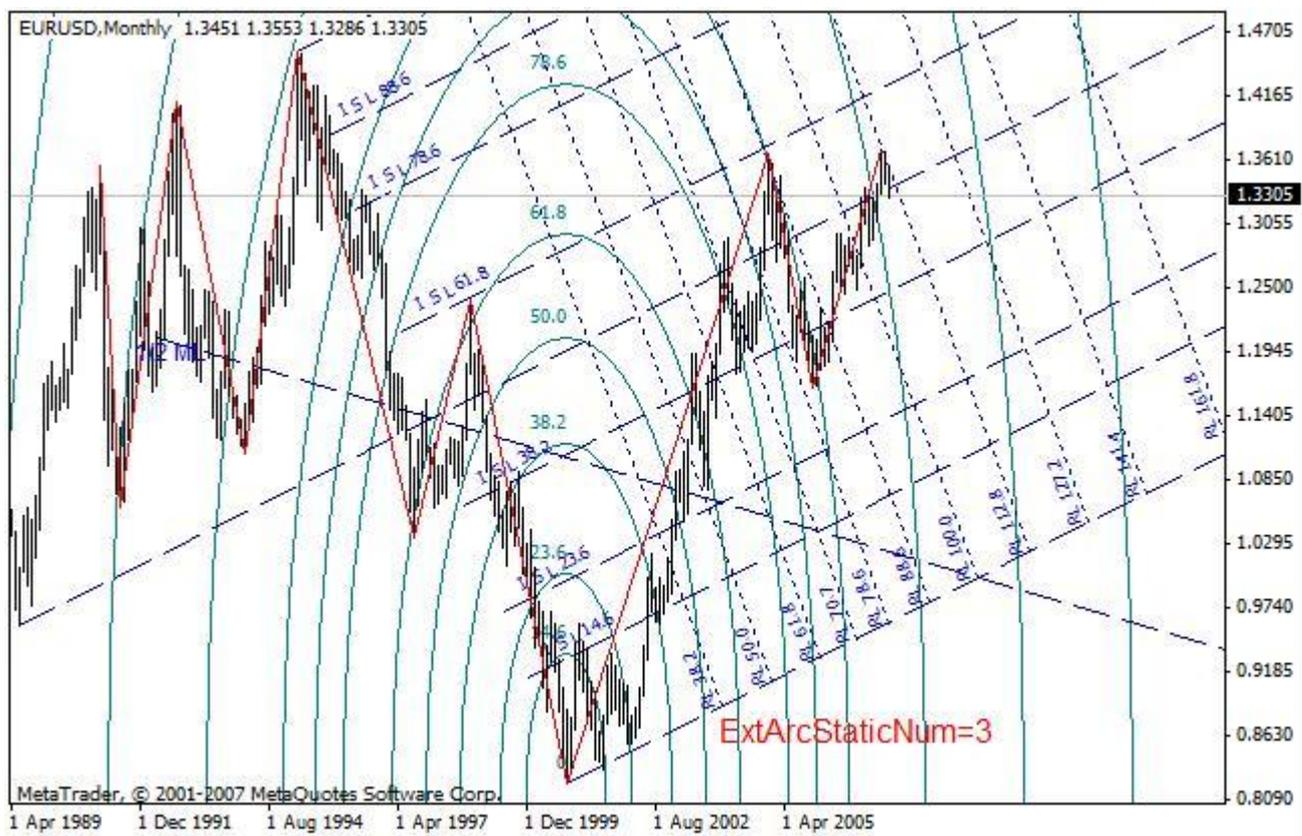
1 - the point of 100 % of an arch also specifies number of top or a hollow of a zigzag

- At task ExtArcStaticNum=12

1 - a point of the center

2 - a point of 100 %.

If to set, for example, ExtArcStaticNum=3 the center will be on 3 crisis of a zigzag, and 100 % on 2 crisis.



If to set ExtArcStaticNum=83, the center on 8 crisis, 100 % on 3 crisis. It is possible to set the center and 100 % between two tops or two hollows, for example ExtArcStaticNum=42.

Static arches can be built between any two crises of a zigzag, from 1-st zigzag before 9-th crisis. Dynamic arches are under construction between 0-th "crisis" and any of the following 9 crises.

If we set ExtArcDinamicNum=8 the center will be in a point 0 zigzags, 100 % on 8 crisis. If we set ExtArcDinamicNum=80 the center will be on 8 crisis of a zigzag, 100 % in a point 0.

The arch is calibrated on a beam of a zigzag on which she is constructed. The beam is understood as a line connecting a point of the center with a point of 100 % of an arch to which the arch is adhered. Calibration is made automatically by means of parameters ExtArcDinamicScale=0, ExtArcStaticScale=0. Automatic calculation is made as follows. The quantity of items between points of the center and 100 % of an arch is calculated and this quantity of items on quantity of bars between these points shares. The received number sets value of scale at construction of arches. Thus scaling arches is made.

If in parameters ExtArcDinamicScale, ExtArcStaticScale to write down number it is more 0 the arch will be calibrated (to be scaled) by the given number.

Additional opportunities of the indicator

With ZigZag ExtIndicator = 1, ExtIndicator = 2 and ExtIndicator = 3 by means of parameter chHL = true it is possible to deduce levels of acknowledgement on the schedule. Levels of acknowledgement show the channel. If the price punches the opposite party of the channel ZigZag draws a new beam.



By means of parameter PeakDet = true levels of the previous minima and maxima ZigZag are deduced.



Parameters chHL and PeakDet are taken from original ZigZag Alex.

- **chHL_PeakDet_or_vts** - true - By default resolves a conclusion of lines of acknowledgement (the price channel) and levels of previous maxima ZigZag. false - the indicator i-vts is deduced. If to set false on the schedule two copies of the indicator i-vts with different adjustments will be deduced.

- **NumberOfBars** - Quantity of bars обсчёта (all bars) for i-vts.

- **NumberOfVTS** is, I so understand, parameter of smoothing for i-vts.

- **NumberOfVTS1** - parameter of smoothing for the second copy i-vts.



The general parameters

- **ExtObjectColor** - sets color of the line connecting base points of graphic objects;
- **ExtObjectStyle** - sets стиль a line connecting base points of graphic objects;
- **ExtObjectWidth** - sets thickness of the line connecting base points of graphic objects.

These of three parameters work with fibs, with expansions Fibonacci, time zones FiboTime ... Earlier base points of these objects incorporated to arches a dotted red line. These of three parameters work with all listed objects simultaneously.

- **ExtSendMail** - resolves sending the message on email about the appeared pattern;
- **ExtAlert** - resolves a conclusion of the message and a sound signal at occurrence of new beam ZigZag;
- **ExtBack** - sets a conclusion of all objects in the form of a background;
- **infoTF** - includes the information on 5 seniors таймфреймам. The name timeframe is deduced. The size of a candle in items.

Current position of the price concerning a minimum. Also shows height of the first beam of a zigzag expressed in percentage. Shows names of patterns Gartley and the size of a zone of possible development of point D for patterns Gartley.



The conclusion

In article the description of the basic opportunities built in in ZUP tools is given:

1. Patterns Pesavento;
2. The complete set of the tools working with pitchforks of Andrews;
3. Fans Fibonacci;
4. Levels Fibonacci;
5. Arches Fibonacci;
6. Two variants of expansions Fibonacci;

The description of new tools is given: versum Levels and channels micmed'a. The full list of values fibo., applied with various graphic tools is brought. The brief description of parameters ZUP is given.

Job above new opportunities ZUP proceeds. In the further expansion of opportunities of already available tools and building in of new tools is not excluded. Also new parameters are constantly added. Errors come to light and corrected. The further job above ZUP is conducted at forum ONIX <http://onix-trade.net/forum/index.php?showforum=54>

It is very complex to finish the description because new opportunities in ZUP are constantly added. Already finished version ZUP_v64. In this version opportunities of job with channels micmed'a are expanded, it is possible to work with fibs, set by the user... It is added two new ZigZag. ExtIndicator=12 - ZigZag which has developed Talex, ExtIndicator=13 - ZigZag which were developed by the Commodity researcher (tovaroved).

In the attached file of version ZUP_v63 and ZUP_v64. Complete with version ZUP_v64 in file MsWord the brief description of innovations is given.

The literature

1. Larry Pesavento. Fibonacci Ratios with Pattern Recognition
2. Larry Pesavento. Profitable Patterns for Stock Trading
3. Bryce Gilmore. Dynamic Time and Price Analysis of Market Trends
4. Bryce Gilmore. Geometry of Markets
5. Bryce Gilmore. Geometry of Markets 2
6. Robert Fisher. New methods of trade on Fibonacci

The attached files:

■ [ZUP_v63.zip](http://articles.mql4.com/ru/download/1406) <http://articles.mql4.com/ru/download/1406> (41.7 Kb)

■ [ZUP_v64.zip](http://articles.mql4.com/ru/download/1407) <http://articles.mql4.com/ru/download/1407> (46.2 Kb)

It is created: 7/2/2007 the Author: [Eugeni Neumoin](http://www.mql4.com/ru/users/nen) <http://www.mql4.com/ru/users/nen>

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