

Shortname Longname	Cells	Symmetry	Regiment	Comments
Uniform Fissary Uniform Uniform Compound Scaliform Fissary Scaliform Scaliform Compound *New Discovery				
Sisp Small Swirlprism	120 Paps	5-Fold	Ex	This was the first swirlprism ever found.
Spysp Small Pyramidic Swirlprism	240 Peppies		Sub-Ex - Spysp	
Stodsap Small Toroidal Digonal Swirlprism	120 "Blends of 2 Paps"	2-Fold	Ex	This swirlprism can be considered exotic-celled, as can its conjugate, Gatodsap.
Sodasp Small Digonal Swirlprism	120 "Blends of 2 Paps within Ike"			
Stasp Small Trigonal Swirlprism	120 "Tuteddi-Gad Blends"			
Sotatsop Small Toroidal Trigonal Swirlprism	120 Tuteddis	3-Fold		
Gisp Great Swirlprism	120 Starps	5-Fold	Gishi	
Gypasp Great Pyramidic Swirlprism	240 Stappies		Sub-Gishi - Gypasp	
Gatodsap Great Toroidal Digonal Swirlprism	120 "Blends of 2 Starps"	2-Fold	Gishi	This and Stodsap can be considered exotic-celled.
Godasp Great Digonal Swirlprism	120 "Blends of 2 Starps within Gike"			
Gotasp Great Trigonal Swirlprism	120 "Tutargi-Sissid Blends"	3-Fold		
Gotatsop Great Toroidal	120 Tutargis			

Trigonal Swirlprism				
Spidro Swirlprismatodiminished Rectified 600choron	120 Paps 120 Pips 600 Squippies	5-Fold	Spidro	This is one of two known convex swirlprisms, the other being Bidex.
Sporraggix Swirlprismatoplenished Rectified Grand 600choron	120 Starps 120 Stips 600 Squippies		Sporraggix	
Bidex Biicositetradiminished 600choron	48 Teddis	?????	Bidex	This is the second of two known convex swirlprisms, the first being Spidro.
Birgax Biicositetrareplenished Grand 600choron	48 Targis		Birgax	
Sphix Swirlprismatic 120-600choron	600 Stips 120 Pips	5-Fold	Sishi	Sphix's pips exist only structurally, that is, they are <i>not</i> exposed to space outside the polychoron. This and the five swirlprisms below are known as the "hybrid swirlprisms", and are created by blending various numbers of Stipdips with Paphicki and Paphacki.
Spaxhi Swirlprismatic 600-120choron	120 Stips 600 Pips			
Spiddit Swirlprismatic 240-480choron	480 Stips 240 Pips	2-Fold		
Spittid Swirlprismatic 480-240choron	240 Stips 480 Pips			
Sispatit Small Swirlprismatic 360-360choron	360 Stips A 360 Pips A	3-Fold		
Gispatit Great Swirlprismatic 360-360choron	360 Stips B 360 Pips B			
Sidditsphit* Small 240-360-Swirlprismatic 120-360choron	360A Tets 240A Thahs A 120A Trips 360B Trips			This was discovered as the conjugate of the polychoron below by reorienting the thahs. A third polychoron - Bofahidditsphit - exists in this company, by replacing the thahs with coes, but is a compound.

				This and its conjugate are also the <i>only</i> known non-orientable uniform swirlprisms.
Gidditsphit* Great 240-360-Swirlprismatic 120-360choron	360A Tets 240A Thahs B 120A Trips 360B Trips			I discovered this on 15/9/2020 - the first uniform polychoron found in over 14 years. Soon afterwards, I found its conjugate, Sidditsphit.
Spidy Swirlprismatic Dis120choron Compound of 24 Starpedip	120 Stips 120 Pips	5-Fold		Spidy can be blended in various ways with Paphicki and Paphacki to create the "hybrid swirlprisms". These two are the longest-known compound swirlprisms.
Ditsop Ditrignary Swirlprism Compound of 12 Gudap	120 Starps 120 Paps 600 Tets			
Siddixphi* Small Dis600-Swirlprismatic 120choron Compound of 12 Tocap	120 Stips 600 Tets 600 Squippies			This was the first Sishi-regiment swirlprism known to contain squippies.
Giddixphi* Great Dis600-Swirlprismatic 120choron Compound of 12 Gocap	120 Pips 600 Tets 600 Squippies			
Tipsop Trigonal-Prismatoswirlprism	120 Starps 120 Paps 1200 Trips			
Sispdohix Small Swirlprismatic Dis120-600choron	120 Starps 120 Pips 600A Trips			Sispdohix was found in September 2019 by my attempts at creating more Sishi-regiment swirlprisms and by Jonathan Bowers as the result of a botched attempt at creating a Tipsop verf. The rest of these were found during the Pedisna
Gispdohix Great Swirlprismatic Dis120-600choron	120 Paps 120 Stips 600B Trips			
Shispdahix Small 120-Swirlprismatic Dis120-600choron	120 Starps 120 Ikes 120 Pips 600B Trips			
Ghispdahix	120 Gikes			

Great 120-Swirlprismatic Dis120-600choron	120 Paps 120 Stips 600A Trips			Discovery Wave, brought to you by Mr. Bowers.
Sixspaxody Small 600-Swirlprismatic 600-Dis120choron	120 Starps 120 Pips 600 Tets 600B Trips			
Gixspaxody Great 600-Swirlprismatic 600-Dis120choron	120 Paps 120 Stips 600 Tets 600A Trips			
Sputhit Swirlprismatic Tetris120-480choron	120 Starps 120 Paps 120 Stips 120 Pips 480 Trips	2-Fold		
Bofahidditsphit* Biformic Hemi240-360-Swirlprismatic 120-360choron Compound of 60 ?????	360A Tets 120A Coes 120A Trips 360B Trips	3-Fold		I theorized some time ago about uniform compounds of nonuniform components, but this is probably the first example ever found. Interestingly enough, it's not the only example of this I've seen, with my finding Sidtaxcadhi Spaxhi and Gadtaxcadhi Spaxhi on 25/9/2020.
Sispyphi Small Swirlprismatic Pyri-120choron	120 Starps 240 Peppies	5-Fold		These two scaliform Sishi-regiment swirlprisms are the two longest-known in the regiment. Seven more - five of which are fissary - would be found in the 2019 PDW; over 51 more scaliforms, two uniform polychora, a bizarre compound and quite a few fissaries of those would be found in 2020.
Gispyphi Great Swirlprismatic Pyri-120choron	240 Stappies 120 Paps			
Sispyphix Small Swirlprismatic Pyri-120-600choron	240 Stappies 120 Pips 600B Trips			These are the only two properly-connected scaliform swirlprisms found in the PDW.
Gispyphix Great Swirlprismatic Pyri-120-600choron	240 Peppies 120 Stips 600A Trips			

Sisp Pydixhi <i>Small Swirlprismatic Pyri-Dis600-120choron</i>	240 Stappies 120 Pips 600 Tets 600A Trips			The first four of these are just edge-fissary. Spidpythit, however, is edge-and-vertex-fissary, and in such a way that it could be considered <i>bi-scaliform</i> , or, in other words, <i>not</i> entirely scaliform.
Gisp Pydixhi <i>Great Swirlprismatic Pyri-Dis600-120choron</i>	240 Peppies 120 Stips 600 Tets 600B Trips			
Sisp Pyxady <i>Small Swirlprismatic Pyr-600-Dis120choron</i>	240 Stappies 120 Ikes 120 Pips 600A Trips			
Gisp Pyxady <i>Great Swirlprismatic Pyr-600-Dis120choron</i>	120 Gikes 240 Peppies 120 Stips 600B Trips			
Spidpythit <i>Swirlprismatic Dispyri-Dis120-480choron</i>	240 Stappies 240 Peppies 120 Stips 120 Pips 480 Trips	2-Fold		
Xaspiddipyhi* <i>600-Swirlprismatic Dispyri120choron</i>	240 Stappies 240 Peppies 600 Tets	5-Fold		I discovered this in 2019 before the PDW - I initially called <i>Pasrypspox</i> for <i>Pyriswirl Retropyriswirlprismatic 600choron</i> , then <i>Xapsyrpsip</i> for <i>600-Pyriswirl Retropyriswirlprism</i> . After sorting back through my enormous collection of swirlprisms, I rediscovered this thing and gave it its current name.
Tipspiddipyhi* <i>Trigonal-Prismatic-Swirlprismatic Dispyri120choron</i>	240 Stappies 240 Peppies 1200 Trips			This, like Xaspiddipyhi, was discovered before the PDW; it was initially called <i>Papsyrpsip</i> for <i>Prismatopyriswirl Retropyriswirlprism</i> .
Sixadithispy* <i>Small 600-Ditrigonary 120-Swirlprismatic 120choron</i>	120 Stips 120 Giddids 600 Squippies			I found this swirlprism soon after I began to refine my search thereof; it is the first known to use sidtid facetings - in this

				case, giddids.
Gixadithispy* Great 600-Ditrigonary 120-Swirlprismatic 120choron	120 Pips 120 Sittids 600 Squippies			
Sixadithispix* Small 600-Ditrigonary 120-Swirlprismatic 600choron	600 Stips 120 Giddids 600 Squippies			
Gixadithispix* Great 600-Ditrigonary 120-Swirlprismatic 600choron	600 Pips 120 Sittids 600 Squippies			
Sixhispy* Small 600-120-Swirlprismatic 120choron	120 Stips 120 Gikes 600 Squippies			
Gixhispy* Great 600-120-Swirlprismatic 120choron	120 Pips 120 Ikes 600 Squippies			
Sixhispix* Small 600-120-Swirlprismatic 600choron	600 Stips 120 Gikes 600 Squippies			
Gixhispix* Great 600-120-Swirlprismatic 600choron	600 Pips 120 Ikes 600 Squippies			
Sixspaxhi* Small 600-Swirlprismatic 600-120choron	120 Starps 600 Squippies 600 Trips			
Gixspaxhi* Great 600-Swirlprismatic 600-120choron	120 Paps 600 Squippies 600 Trips			
Sixspaxaphi* Small 600-Swirlprismatic 600-Pyri120choron	240 Stappies 600 Squippies 600 Trips			
Gixspaxaphi* Great 600-Swirlprismatic 600-Pyri120choron	240 Peppies 600 Squippies 600 Trips			

Sisphichi* <i>Small Swirlprismatic</i> 120-Cupoli120choron	120 Paps 240 Stiscus			
Gisphichi* <i>Great Swirlprismatic</i> 120-Cupoli120choron	120 Starps 240 Piscus			This is the first known swirlprism to contain cupoloids of any sort.
Sixsppychichi* <i>Small</i> 600-Swirlprismatic Pyri120-Cupoli120choron	240 Stappies 240 Piscus 600 Tets			
Gixsppychichi* <i>Great</i> 600-Swirlprismatic Pyri120-Cupoli120choron	240 Peppies 240 Stiscus 600 Tets			
Sixspaxichi* <i>Small</i> 600-Swirlprismatic 600-Cupoli120choron	120 Pips 240 Stiscus 600 Trips			
Gixspaxichi* <i>Great</i> 600-Swirlprismatic 600-Cupoli120choron	120 Stips 240 Piscus 600 Trips			
Saspidthi* <i>Small Swirlprismatic</i> Ditrigonary 120choron	120 Faceted Sidtid			These are the first two noble swirlprisms found since the scaliforms in the Ex and Gishi regiments.
Gaspidthi* <i>Great Swirlprismatic</i> Ditrigonary 120choron	120 Faceted Sidtid			
Sisphidthi* <i>Small Swirlprismatic</i> 120-Ditrigonary 120choron	120 Starp 120 Faceted Sidtid			
Gisphidthi* <i>Great Swirlprismatic</i> 120-Ditrigonary 120choron	120 Pap 120 Faceted Sidtid			
Dipsop* <i>Dipesic Swirlprism</i>	120 "Blends of 2 Starps within Gike" 120 "Blends of 2 Paps within Ike"	2-Fold		This, like Spidpythit, is vertex-fissary; however, unlike Spidpythit, all components of

				Dipsop's verf are congruent, making it <i>still</i> vertex-transitive.
Sitsphi* <i>Small</i> 480-Swirlprismatic 120choron	240 Stips 480 Bobipyrs A			These four swirlprisms are the first known to form a <i>tetrad</i> - that is the name I give to a group of polychora with similar cell sets and the prefixes <i>small</i> , <i>medial</i> , <i>great</i> , and <i>grand</i> .
Mitsphi* <i>Medial</i> 480-Swirlprismatic 120choron	240 Pips 480 Bobipyrs B			
Gitsphi* <i>Great</i> 480-Swirlprismatic 120choron	240 Stips 480 Bobipyrs B			
Gatsphi* <i>Grand</i> 480-Swirlprismatic 120choron	240 Pips 480 Bobipyrs A			
Sithidspid* <i>Small</i> 480-Hemi240-Swirlprismatic 240choron	240 Stips 480 Squippies A 120 Coes			These four swirlprisms form a tetrad. Also, these are currently the only known swirlprisms to be properly-connected <i>and</i> have cells passing through their centers.
Mithidspid* <i>Medial</i> 480-Hemi240-Swirlprismatic 240choron	240 Pips 480 Squippies B 120 Coes			
Githidspid* <i>Great</i> 480-Hemi240-Swirlprismatic 240choron	240 Stips 480 Squippies B 120 Coes			
Gathidspid* <i>Grand</i> 480-Hemi240-Swirlprismatic 240choron	240 Pips 480 Squippies A 120 Coes			
Siddidthisphi* <i>Small Digonal</i> <i>Ditrigonary</i> 120-Swirlprismatic 120choron	120 "Blends of 2 Starps within Gike" 120 Faceted Sidtids			
Giddidthisphi* <i>Great Digonal</i> <i>Ditrigonary</i> 120-Swirlprismatic 120choron	120 "Blends of 2 Paps within Ike" 120 Faceted Sidtids			
Sidthispadit* <i>Small Ditrigonary</i> 120-Swirlprismatic	120 Faceted Sidtids 240 Stips 480 Trips			

240-480choron				
Gidthispadit* Great Ditrigonary 120-Swirlprismatic 240-480choron	120 Faceted Sidtids 240 Pips 480 Trips			
Fisphi* Fissary Swirlprismatic 120-120choron	120 "Tutargi-Sissid Blends" 120 "Tuteddi-Gad Blends"	3-Fold		
Sphi* Swirlprismatic 120-120choron	120 Tutargis 120 Tuteddis		Sub-Sishi - Sphi	This is the first known polychoron to use all of Sishi's vertices but <i>not</i> all of its edges. Interestingly enough, it leads a distinct regiment!
Sidtid Hisphi* Small Ditrigonary Dis120-Swirlprismatic 120choron	240 "Triangle-Square-Pentagon Things" 120 Tutargis			
Gidtid Hisphi* Great Ditrigonary Dis120-Swirlprismatic 120choron	240 "Triangle-Square Pentagram Things" 120 Tuteddis			This is the first swirlprism known to contain 3-fold sidtid facetings.
Sidthisphi* Small Ditrigonary 120-Swirlprismatic 120choron	120 "Triangle-Square-Pentagon Thing'-2-Cube Blends" 120 Tutargis			
Gidthisphi* Great Ditrigonary 120-Swirlprismatic 120choron	120 "Triangle-Square Pentagram Things'-2-Cube Blends" 120 Tuteddis			
Siddithisphi* Small Disditrigonary 120-Swirlprismatic 120choron	240 "Triangle-Square-Pentagon Things" 120 "Tutargi-Sissid Blends"		Sishi	
Giddithisphi* Great Disditrigonary 120-Swirlprismatic 120choron	240 "Triangle-Square-Pentagram Things" 120 "Tuteddi-Gad Blends"			
Sydsphi* Small	120 "Triangle-Square-P			

120-Ditrigonary Swirlprismatic 120choron	entagon Thing'-2-Cube Blends" 120 "Tutargi-Sissid Blends"			
Gydsphi* Great 120-Ditrigonary Swirlprismatic 120choron	120 "Triangle-Square-P entagram Thing'-2-Cube Blends" 120 "Tuteddi-Gad Blends"			
Sisphihiy* Small Swirlprismatic 120-120choron	120 "Tutargi-Sissid Blends" 120 Tuteddis			These could be considered the "intermediate phases" between Sphihiy and Fisphihiy.
Gisphihiy* Great Swirlprismatic 120-120choron	120 Tutargis 120 "Tuteddi-Gad Blends"			These four swirlprisms are tetradic.
Sispathit* Small Swirlprismatic 360-120-360choron	120 Tutargis 360 Stips 360 Trips			
Mispathit* Medial Swirlprismatic 360-120-360choron	120 Tuteddis 360 Stips 360 Trips			
Gispathit* Great Swirlprismatic 360-120-360choron	120 Tutargis 360 Pips 360 Trips			
Gaspathit* Grand Swirlprismatic 360-120-360choron	120 Tuteddis 360 Pips 360 Trips			
Spy* Swirlprismatic 120choron	120 Faceted Sidtids			This is the third known noble swirlprism in the Sishi regiment, and the first of those to be fissary.
Sidthispaxhi* Small Ditetrahedronary 120-Swirlprismatic 600-120choron	120 Faceted Sidtids 120 Pips 600 Trips	5-Fold	Sidtaxhi	I created this after finding Sidtaxcadhi Spaxhi - this is the first known properly-connected ditetrahedronary swirlprism. More on those, I have struggled to find any <i>other</i> properly-connected swirlprisms in this

				regiment; however, I realized that 5-fold facetings of srid - such as pecus - could possibly appear under swirlprismic symmetry.
<p>Sidtaxcadhi Spaxhi* <i>Small</i> <i>Ditetrahedronary</i> 600-Cupolidis120-S <i>wirlprismatic</i> 600-120choron Compound of 120 "Pentagonal Retromagnabisemic upolic Rings"</p>	<p>240 Piscus 600 Tets 120 Pips 600 Trips</p>			<p>I found this compound after realizing that swirlprisms could possibly exist under Hi's vertices - this is the first known ditetrahedral swirlprism. Also, like Bofahidditsphit, Sidtaxcadhi Spaxhi's components are not themselves vertex-transitive; however, unlike Bofahidditsphit, this compound is scaliform.</p>
<p>Gadthispaxhi* <i>Grand</i> <i>Ditetrahedronary</i> 120-Swirlprismatic 600-120choron</p>	<p>120 Faceted Sidtids 120 Stips 600 Trips</p>		Gadtaxady	
<p>Gadtaxcadhi Spaxhi* <i>Grand</i> <i>Ditetrahedronary</i> 600-Cupolidis120-S <i>wirlprismatic</i> 600-120choron Compound of 120 "Pentagrammic Magnabisemicupolic Rings"</p>	<p>240 Stiscus 600 Tets 120 Stips 600 Trips</p>			