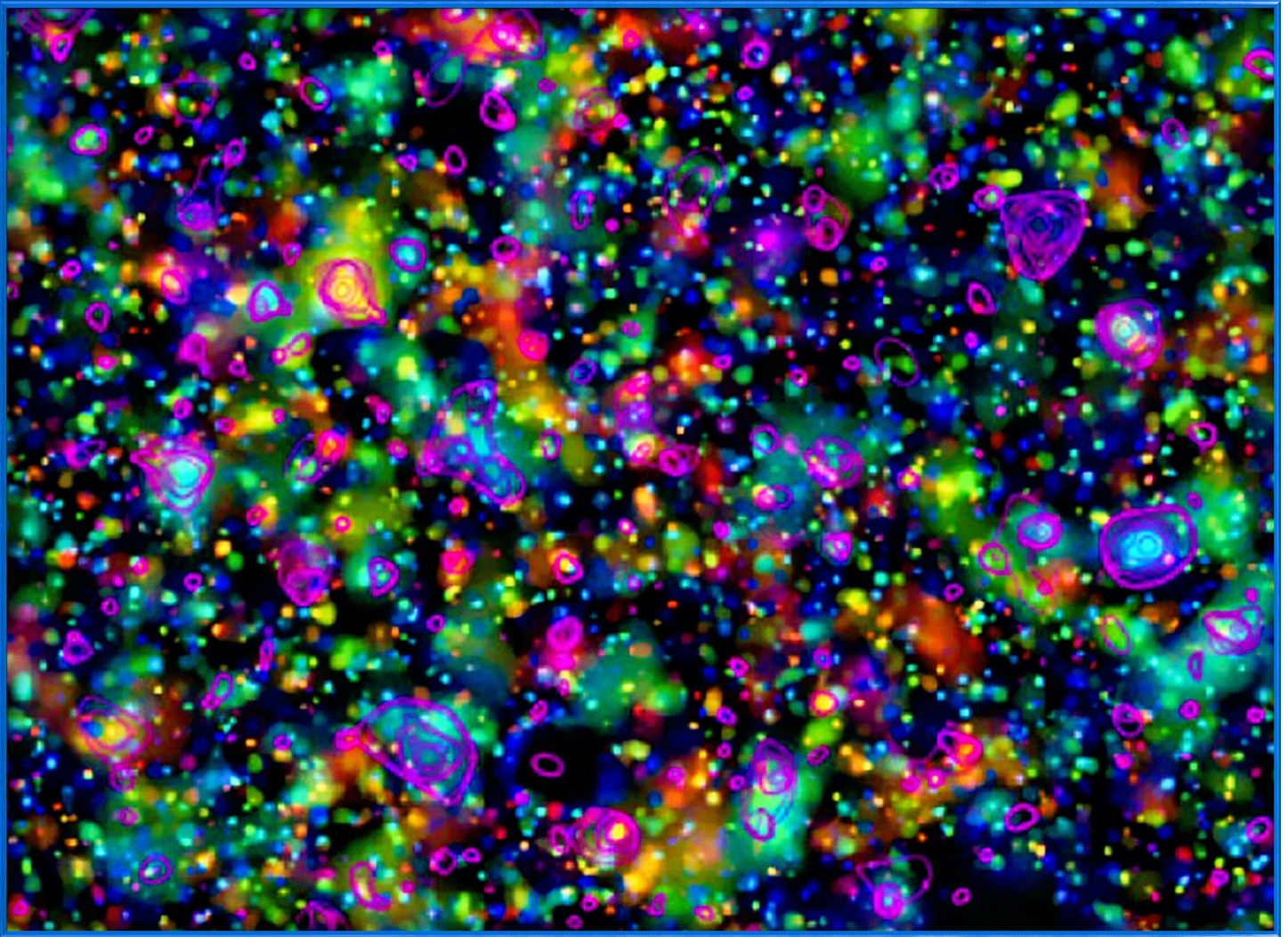


# ALL THAT LIES BETWEEN

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*Energy is a beauty and a brilliance,  
Flashing up in its destructance,  
For everything isn't here to stay its "best";  
It's merely here to die in its sublimeness.*

*Like slow fires making their brands, it breeds,  
Yet ever consumes and moves on, as more it feeds,  
Then spreads forth anew, this unpurposed dispersion,  
An inexorable emergence with little reversion,*

*Ever becoming of its glorious excursions,  
Bearing the change that patient time restrains,  
While feasting upon the glorious decayed remains  
In its progressive march through losses for gains.*

We have oft described the causeless—  
That which was always never the less,  
As well as the beginnings of our quest,  
And too have detailed in the rarest of glimpses  
The slowing end of all of forever's chances.

So now we must now turn our attention keen  
To all of the action that exists in-between—  
All that's going on and has gone before,  
Out to the furthest reaches, ever-more,

For everything that ever happens,  
Including life and all our questions,  
Meaning every single event ever gone on,  
Of both the animate and the non,  
Is but from a single theme played upon.

This then is of the simplest analysis of all,  
For it heeds mainly just one call—  
That of the second law's dispersion,

The means for each and every occasion,  
From the closest to the farthest range—  
That which makes anything change.

These changes range from the simple,  
Such as a bouncing ball resting still,  
Or ice melting that gives up its chill,  
To the more complex, such as digestion,  
Growth, death, and even reproduction.

There is excessively subtle change as well,  
Such as the formations of opinions tell  
And the creation or rejections of the will,

And yet all these kinds of changes, of course,  
Still become of one simple, common source,  
Which is the underlying collapse into chaos—  
The destiny of energy's unmotivated non-purpose.

All that appears to us to be motive and purpose  
Is in fact ultimately motiveless, without purpose.  
Even aspirations and their achievement's ways  
Have fed on and come about through the decay.

The deepest structure of change is but decay,  
Although it's not the quantity of energy's say  
That causes decay, but the *quality*, for it strays.

Energy that is localized is potent to effect change,  
And in the course of causing change it ranges,  
Spreading and becoming chaotically distributed,  
Losing its *quality* but never of its quantity rid.

The key to all this, as we will see,  
Is that it goes through stages wee,  
And so it doesn't disperse all at once,  
As might one's paycheck inside of a month.

This harnessed decay results not only for  
Civilizations but for all the events going fore  
In the world and the universe beyond,

It accounting for all discernible change  
Of all that ever gets so rearranged,  
For the *quality* of all this energy kinged  
Declines, the universe unwinding, as a spring.

Chaos may temporarily recede,  
    *Quality* building up for a need,  
As when cathedrals are built and formed,  
And when symphonies are performed,

But these are but local deceits  
    Born of our own conceits,  
For deeper in the world of kinds  
The spring inescapably unwinds,  
    Driving its energy away—  
As All is being driven by decay.

The *quality* of energy meant  
    Is of its dispersal's extent.  
When it is totally precipitate,  
It destroys, but when it's gait  
Is geared through chains of events  
It can produce civilization's tenants.

Ultimately, energy naturally,  
    Spontaneously, and chaotically  
Disperses, causing change, irreversibly.

Think of a group of atoms jostling,  
At first as a vigorous motion happening  
In some corner of the atomic crowd;

They hand on their energy, loud,  
Inducing close neighbors to jostle too,  
And soon the jostling disperses too—  
The irreversible change but the potion  
Of the 'random', motiveless motion.

And such does hot metal cool, as atoms swirl,  
    There being so many atoms in the world  
    Outside it than in the block metal itself  
That entropy's statistics average themselves.

The illusions of purpose lead us to think  
That there are reasons, of some motive link,  
Why one change occurs and not another,

And even that there are reasons that cover  
Specific changes in locations of energy,  
The energy choosing to go there, intentionally,

Such as a purpose for a change in structure,  
This being as such as the opening of a flower,  
Yet this should not be confused with energy  
Achieving to be there in that specific bower,

Since at root, of all the power,  
Even that of the root of the flower,  
That there is the degradation by dispersal,  
This being mostly non reversible and universal.

The energy is always still spreading thencely,  
Even as some temporarily located density—  
An illusion of specific change  
In some region rearranged,

But actually it's just lingering there, discovering,  
Until new opportunities arise for exploring,  
The consequences but of 'random' opportunity,  
Beneath which, purpose still vanishes entirely.

Events are the manifestations  
Of overriding probability's instantiations—  
Of all of the events of nature, of every sod,  
From the bouncing ball to conceptions of gods,  
Of even free will, evolution, and all ambition,

For they're of our simple idea's elaborations,  
Although for the latter stated there

And such for that as warfare  
Their intrinsic simplicity is buried more deeply.

And yet though sometimes concealed away,  
The spring of all creation is just decay,  
The consequence and instruction  
Of the natural tendency to corruption.

Love or war become as factions  
Through the agency of chemical reactions,  
The actions being the chains of reactions,  
Whether thinking, doing, or rapt in attention,  
For all that happens is of chemical reaction.

At its most rudimentary bottom,  
Chemical reactions are rearrangements of atoms,  
These being species of molecules  
That with perhaps additions and deletions  
Then go on to constitute another one, by fate,  
Although they sometimes only change shape,

But too can be consumed and torn apart,  
Either as a whole or in part, so cruel,  
As a source of atoms for another molecule.

Molecules have neither motive nor purpose to act,  
Neither an inclination to go on to react  
Nor any urge to remain unreacted;  
So then why do reactions occur if unacted?

Molecules are but loosely structured  
And so they can be easily ruptured,  
For reactions may occur if the process energy norm  
Is degraded into a more dispersed and chaotic form,

And so as they usually are constantly subject  
To the tendency to lose energy, as the abject

Jostling carries it away to the surroundatons,  
Reactions being misadventure's transformations,  
It then being that some transient arrangements  
May suddenly be frozen into permanences  
As the energy leaps away to other experiences.

So, molecules are a stage in which the play goes on,  
But not so fast that the forms cannot seize upon;

But really, why do molecules have such fragility,  
For if their atoms were as tightly bound as nuclei,  
Then the universe would have died, being frozen,  
Long before the awakening of the forms chosen,

Or if molecules were as totally free to react  
Every single time they touched a neighbor's part  
Then all events would have taken place so rapidly  
And so very crazily and haphazardly

That the rich attributes of the world we know  
Would not have had the needed time to grow.

Ah, but it is all of the necessitated restraint,  
For it ever takes time a scene to paint,  
As such as in the unfolding of a leaf,  
The endurances for any stepping feat,

As of the emergence of consciousness  
And the paused ends of energy's restlessness:  
It's of the controlled consequence of collapse  
Rather than one that's wholly precipitous.

So now all is known of our heres and nows  
Within this parentheses of the eternal boughs,  
As well as the why and how of it all has come,  
And of our universe's end, but that others become.

Out of energy's dispersion and decay of *quality*  
Comes the emergence of growth and complexity.

(The verse lines, being like molecules warmed,  
Continually broke apart and reformed  
About the rhymes which tried to be non intrusions,  
Eventually all flexibly stabilizing to conclusions.)